

# MITCHELL COMMUNITY COLLEGE

CATALOG 1989-1991







Mitchell Community College shall continue to offer equal employment opportunities to its existing personnel and applicants for employment, and equal educational programs and instructional opportunities to students without regard to race, color, religion, sex, age, handicap, or national origin.



## **MITCHELL COMMUNITY COLLEGE**

*is Accredited By the Commission on Colleges of the  
SOUTHERN ASSOCIATION OF COLLEGES AND SCHOOLS  
to award the A.A., A.E.A., A.S., A.A.S. degrees and diplomas and  
certificates in Technical and Vocational Programs*

STATESVILLE, N. C.

28677

Phone: 704-878-3200





- 1852 — Chartered by Concord Presbytery
- 1856 — Began operations as Concord Female Seminary
- 1932 — Became coeducational
- 1959 — Became private independent junior college
- 1973 — Became public community college

SERVING IREDELL COUNTY & NORTH CAROLINA  
FOR OVER ONE HUNDRED & THIRTY YEARS

Mitchell Community College issues this catalog for the purpose of furnishing prospective students and other interested persons with information about the institution and its programs. Announcements contained herein are subject to change without notice and may not be regarded in the nature of binding obligations on the college or the state. Efforts will be made to keep changes to a minimum, but changes in policy by the State Board of Community Colleges, or by local conditions, may make some alterations in curriculums, fees, etc., necessary. The college disclaims any liability of any kind by virtue of changes in any of the information contained in this catalog.

Wherever the terms "man," "men," or related pronouns appear in this catalog, they have been used in their generic sense to include all humankind — both female and male sexes.



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1989

JANUARY							MAY							SEPTEMBER						
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1991

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ACADEMIC CALENDAR FOR 1989-91

SPRING QUARTER 1989

March	6	Monday	Registration
March	7	Tuesday	Faculty Workday
March	8	Wednesday	Classes Begin
March	8-10	Wednesday-Friday	Late Registration and Drop/Add
March	24-27	Friday-Monday	Easter Holidays
March	28	Tuesday	Classes Resume
April	17	Monday	Midterm
April	19	Wednesday	Last day to withdraw from a class without Grade of "F"
May	18	Thursday	Last day to withdraw from school without "F" grades
May	25	Thursday	End of Spring Quarter
May	26	Friday	Graduation

SUMMER QUARTER 1989

May	29	Monday	Registration
May	30	Tuesday	Classes Begin
May 30-June 1		Tuesday-Thursday	Late Registration and Drop/Add Period
July	3-4	Monday-Tuesday	Holidays
July	6	Thursday	Midterm
July	11	Tuesday	Last day to withdraw from a class without Grade of "F"
August	9	Wednesday	Last day to withdraw from school without "F" grades
August	16	Wednesday	End of Summer Quarter

FIRST SESSION SUMMER 1989

May	29	Monday	Registration
May	30	Tuesday	Classes Begin
May	30-31	Tuesday-Wednesday	Late Registration and Drop/Add Period
June	15	Thursday	Midterm
June	20	Tuesday	Last day to withdraw from a class without Grade of "F"
July	3-4	Monday-Tuesday	Holidays
July	5	Wednesday	Last day to withdraw from school without "F" grades
July	10	Monday	End of First Session



**SECOND SESSION SUMMER 1989**

July	10	Monday	Registration
July	11	Tuesday	Classes Begin
July	11-12	Tuesday-Wednesday	Late Registration and Drop/Add Period
July	27	Thursday	Midterm
August	1	Tuesday	Last day to withdraw from a class without Grade of "F"
August	9	Wednesday	Last day to withdraw from school without "F" grades
August	16	Wednesday	End of Second Session

**FALL QUARTER 1989**

August	29	Tuesday	Faculty Workshop and Student Orientation
August	30-31	Wednesday-Thursday	Registration
September	1	Friday	Faculty Workshop
September	4	Monday	Labor Day
September	5	Tuesday	Classes Begin
September	5-7	Tuesday-Thursday	Late Registration and Drop/Add Period
October	11	Wednesday	Midterm
October	13	Friday	Last day to withdraw from a class without Grade of "F"
November	13	Monday	Last day to withdraw from school without Grade of "F"
November	20	Monday	End of Fall Quarter
November	23-24	Thursday-Friday	Thanksgiving Holidays

**WINTER QUARTER 1989-90**

November	27	Monday	Registration
November	28	Tuesday	Faculty Workday
November	29	Wednesday	Classes Begin
November 29- Dec 1		Wednesday-Friday	Late Registration and Drop/Add Period
December 20-January 1			Christmas Holidays
January	2	Tuesday	Classes Resume
January	15	Monday	Holiday
January	18	Thursday	Midterm
January	22	Monday	Last day to withdraw from a class without Grade of "F"
February	20	Tuesday	Last day to withdraw from school without Grade of "F"
February	27	Tuesday	End of Winter Quarter



**SPRING QUARTER 1990**

March	5	Monday	Registration
March	6	Tuesday	Faculty Workday
March	7	Wednesday	Classes Begin
March	7-9	Wednesday-Friday	Late Registration and Drop/Add Period
April	12	Thursday	Midterm
April	13-16		Easter Holidays
April	17	Tuesday	Classes Resume
April	18	Wednesday	Last day to withdraw from a class without Grade of "F"
May	17	Thursday	Last day to withdraw from school without Grade of "F"
May	24	Thursday	End of Spring Quarter
May	25	Friday	Graduation

**SUMMER QUARTER 1990**

May	28	Monday	Registration
May	29	Tuesday	Classes Begin
May	29-31	Tuesday-Thursday	Late Registration and Drop/Add Period
July	3	Tuesday	Midterm
July	4-5	Wednesday-Thursday	Holidays
July	10	Tuesday	Last day to withdraw from a class without Grade of "F"
August	8	Wednesday	Last day to withdraw from school without "F" Grade
August	15	Wednesday	End of Summer Quarter

**FIRST SESSION SUMMER 1990**

May	28	Monday	Registration
May	29	Tuesday	Classes Begin
May	29-30	Tuesday-Wednesday	Late Registration and Drop/Add Period
June	14	Thursday	Midterm
June	19	Tuesday	Last day to withdraw from a class without Grade of "F"
July	2	Monday	Last day to withdraw from school without "F" Grade
July	4-5	Wednesday-Thursday	Holidays
July	9	Monday	End of First Session



**SECOND SESSION SUMMER 1990**

July	9	Monday	Registration
July	10	Tuesday	Classes Begin
July	10-11	Tuesday-Wednesday	Late Registration and Drop/Add Period
July	26	Thursday	Midterm
July	31	Tuesday	Last day to withdraw from a class without Grade of "F"
August	8	Wednesday	Last day to withdraw from school without "F" Grade
August	15	Wednesday	End of Second Session

**FALL QUARTER 1990**

August	28	Tuesday	Faculty Workshop and Student Orientation
August	29-30	Wednesday-Thursday	Registration
August	31	Friday	Faculty Workshop
September	3	Monday	Labor Day
September	4	Tuesday	Classes Begin
September	4-6	Tuesday-Thursday	Late Registration and Drop/Add Period
October	10	Wednesday	Midterm
October	12	Friday	Last day to withdraw from a class without Grade of "F"
November	12	Monday	Last day to withdraw from school without Grade of "F"
November	19	Monday	End of Fall Quarter
November	22-23	Thursday-Friday	Thanksgiving Holidays

**WINTER QUARTER 1990-91**

November	26	Monday	Registration
November	27	Tuesday	Faculty Workday
November	28	Wednesday	Classes Begin
November	28-30	Wednesday-Friday	Late Registration and Drop/Add Period
December	20-January 1		Christmas Holidays
January	2	Wednesday	Classes Resume
January	17	Thursday	Midterm
January	21	Monday	Holiday
January	22	Tuesday	Last day to withdraw from a class without Grade of "F"
February	19	Tuesday	Last day to withdraw from school without Grade of "F"
February	26	Tuesday	End of Winter Quarter



**SPRING QUARTER 1991**

March	4	Monday	Registration
March	5	Tuesday	Faculty Workday
March	6	Wednesday	Classes Begin
March	6-8	Wednesday-Friday	Late Registration and Drop/Add
April	1-5		Easter Holidays
April	8	Monday	Classes Resume
April	18	Thursday	Midterm
April	22	Monday	Last day to withdraw from a class without Grade of "F"
May	21	Tuesday	Last day to withdraw from school without Grade of "F"
May	28	Tuesday	End of Spring Quarter
May	29	Wednesday	Graduation

**SUMMER QUARTER 1991**

June	3	Monday	Registration
June	4	Tuesday	Classes Begin
June	4-6	Tuesday-Thursday	Late Registration and Drop/Add Period
July	4	Thursday	Holiday
July	10	Wednesday	Midterm
July	15	Monday	Last day to withdraw from a class without Grade of "F"
August	13	Tuesday	Last day to withdraw from school without Grade of "F"
August	20	Tuesday	End of Summer Quarter

**FIRST SESSION SUMMER 1991**

June	3	Monday	Registration
June	4	Tuesday	Classes Begin
June	4-5	Tuesday-Wednesday	Late Registration and Drop/Add Period
June	20	Thursday	Midterm
June	25	Tuesday	Last day to withdraw from a class without Grade of "F"
July	4	Thursday	Holiday
July	8	Monday	Last day to withdraw from school without Grade of "F"
July	11	Thursday	End of First Session



**SECOND SESSION SUMMER 1991**

July	11	Thursday	Registration
July	15	Monday	Classes Begin
July	15-16	Monday-Tuesday	Late Registration and Drop/Add Period
July	31	Wednesday	Midterm
August	5	Monday	Last day to withdraw from a class without Grade of "F"
August	13	Tuesday	Last day to withdraw from school without Grade of "F"
August	20	Tuesday	End of Second Session









# General Information

## EQUAL OPPORTUNITY POLICY STATEMENT

Mitchell Community College shall continue to offer equal employment opportunities to its existing personnel and applicants for employment without regard to race, color, religion, sex, age, handicap, or national origin. The "Open Door" philosophy extends equal educational programs and instructional opportunities to the college's service area. Ongoing compliance with Federal and State regulations shall be enforced with specific regard to:

- (A) Age Discrimination in Employment Act of 1967 (as amended)
- (B) Civil Rights Act of 1968
- (C) Civil Rights Acts of 1866 and 1871
- (D) Title VI of Civil Rights Act of 1964
- (E) Executive Order No. 11246 (as amended)
- (F) The Rehabilitation Act of 1973 (as amended: Sec. 503; Sec. 504)
- (G) Title IX of Educational Amendments of 1972
- (H) Equal Pay Act of 1963 (as amended)
- (I) Title VII of Civil Rights Act of 1964 (as amended)

Persons with concerns related to areas falling under Federal and State regulations should contact the Affirmative Action Officer, whose office is located in the Frazier House, telephone number (704) 878-3200, extension 258.

## LOCATION

Mitchell Community College is located in Piedmont North Carolina, downtown Statesville, in the foothills of the Blue Ridge Mountains. Interstate Highways 40 and 77 intersect on the outskirts of the city. Statesville is situated approximately 50 miles north of Charlotte, and 50 miles southwest of Winston-Salem. The population of Statesville and Iredell County is approximately 82,500.

## HISTORY

Mitchell Community College began operations as such on July 1, 1973. It merged a rich historical past, steeped in tradition and culture, with a vibrant and relevant present when Mitchell College joined with 56 sister institutions in the state to become a community college.

Mitchell College enrolled its first students in 1856. Concord Presbytery had authorized its establishment as early as 1852; and with the exception of one period, it remained under the control of Concord Presbytery until 1959, when it became an independent community college.

The Main Building, constructed in 1856, is a stuccoed brick structure of three stories, ornamented by a lofty portico with six massive columns. In 1907 the Shearer Hall was added to the Main Building. The first floor contains an auditorium and is equipped with a pipe organ and a concert grand piano.



The Student Union is the college social center and contains a T.V. room, recreational facilities, the book store, and food service facilities. This building was constructed in 1963.

The Mitchell Community College Learning Resources Center was opened in 1967. It houses the library, audio-visual center and Rotary Auditorium which seats 149.

The Vocational Building was occupied Spring Quarter 1977. The beautiful new structure houses five vocational labs, technical and vocational classrooms, technical labs and general instruction classrooms. The architecture of the building was carefully matched with the library which is located directly across the street.

The Science Building completes the structures surrounding the historic Mitchell Circle. It was occupied at the beginning of the summer session 1979. The two-story building provides three labs and two classrooms for vocational programs, four labs and three classrooms for the sciences, and an attractive student waiting area. The architecture blends well with the other four buildings around the Circle.

The Continuing Education operation is administered in the renovated D. Matt Thompson Junior High School on West Front Street. Some of the classes and labs are located at Statesville Senior High School; South Iredell High School; The Mooresville Center; North Iredell High School; Statesville Recreation Center and at many industrial sites throughout the county.

The college became coeducational in 1932, and in 1955 was admitted to membership in the Southern Association of Colleges and Schools. The excellence of the college transfer program has been retained. The addition of occupational programs, community service, and adult education to the existing programs has made Mitchell a comprehensive community college. It will continue to fill the needs of a growing number of students.

## **PURPOSE**

Mitchell Community College operates as a comprehensive community college and seeks to be of optimum educational and cultural service to the people within its geographical area. Concerned with the community as a whole and in particular with the needs of all persons over eighteen years of age and persons sixteen years of age and older with special needs, Mitchell commits its resources to the following purposes: (1) to provide the first two years of academic courses leading to baccalaureate and professional degrees; (2) to meet the pre-service and in-service manpower training needs for industry, business, government, and service occupations that require up to and including the associate degree; (3) to serve the adult population with basic education and salable skills; and (4) to enhance personal fulfillment, responsible citizenship, and standards of living through general and continuing education.



## **MEMBERSHIPS AND APPROVALS**

Mitchell Community College is a member of:

- American Association of Community and Junior Colleges
- North Carolina Department of Community Colleges
- Southern Association of Colleges and Schools
- National Association of Student Financial Aid Administrators

Mitchell Community College is recognized and approved by:

- North Carolina Department of Public Instruction
- Division of Vocational Rehabilitation
- Southern Association of Colleges and Schools
- North Carolina State Board of Community Colleges

## **VETERANS**

Persons enrolled at Mitchell Community College will be eligible to receive Veterans Administration benefits if they qualify.

## **ALUMNI**

The Alumni Services Office strives to maintain current addresses for all MCC graduates to facilitate communication between the College and its graduates, as well as among graduates who wish to contact their former classmates. The Alumni Services Office seeks news items from alumni, publishes an alumni newsletter four times per year, and helps coordinate the annual class reunions held on campus each spring.









# **Admissions, Expenses, Veterans Information, and Financial Aid**

## **ADMISSIONS**

### **ADMISSION REQUIREMENTS**

Mitchell Community College subscribes to the "Open Door" policy as set by the North Carolina Department of Community Colleges. The college will admit all applicants who are 18 years old or older, high school graduates, and students 16 years old or older with special needs to some appropriate program. The college serves all students without regard to race, color, sex, religion, age, handicap, creed, or national origin.

In general, a high school diploma or GED is required for all post-secondary programs. Students without these prerequisites are admitted into vocational programs as a result of counseling when the students demonstrate the necessary skills for success in the programs. Each program is open to students who qualify.

### **ADMISSION PROCEDURE**

Persons wishing to apply for a curriculum program at Mitchell Community College should contact the Office of the Admissions Coordinator for necessary forms, testing dates, and interview appointments. Additional procedures will be forwarded along with the applications to the applicant. The following are generally required for all curriculum programs:

1. Application (includes medical and residency status information)
2. High School and College (if transfer student) transcripts
3. Placement Tests
4. Interview
5. Medical examination forms and personal recommendations (Nursing applicants only).

Students applying to the Nursing program please see Nursing Policy and Procedure Manual.

### **READMISSION REQUIREMENTS**

An application for readmission must be completed for those who wish to reenter after an absence of one quarter or more. For readmission to the nursing program, please see the Nursing Policy and Procedure Manual.

### **SPECIAL CREDIT STUDENTS**

Those persons not enrolled in a degree or diploma program must complete an application.



## **ADMISSION TO CONTINUING EDUCATION PROGRAMS**

Any person who is 18 years old, 16 by special permission, or a high school graduate is eligible to enter a Continuing Education Program. Further information is available in the Continuing Education section of this catalog or from the Dean of Continuing Education.

### **PROVISIONAL ADMISSION**

A student applying too late to complete pre-entrance requirements may be admitted as a provisional student. In such a case, all requirements must be completed within the first quarter of attendance.

### **SPECIAL ADMISSION**

Students not meeting the admissions requirements outlined may, in some cases, be admitted on an individual basis. A decision on each case is made by the department chairman concerned. Special admission will be granted if there is good and sufficient reason and may be withdrawn at any time.

### **VISITING STUDENTS**

A person who has been accepted by or is enrolled at another institution may be admitted as a visiting student. An application along with a statement from the dean of the student's own college must be filed in the Admissions Office. Visiting students may take approved courses for transfer credit.

### **TRANSFER APPLICANTS**

Transfer students may enter Mitchell Community College upon meeting requirements as outlined above. Official transcripts of all previous college work must be submitted. Credit will be allowed whenever possible.

### **TRANSFER OF CREDITS**

Educational work taken at a regionally accredited institution in which a grade of "C" or better was earned and a comparable course is offered at Mitchell Community College may be accepted in transfer if appropriate to the student's program of study.

Work at institutions which are not regionally accredited is evaluated on the basis of the current issue of Report of Credits Given by Educational Institutions published by the AACRAO and similar publications. Credit toward technical and vocational programs may be accepted from other agencies at the discretion of the college. Transfer work over ten years old must be validated by examination.



Final acceptance or rejection of transfer credits lies with the college. A minimum of 30 quarter hours credit in the student's program of study must be earned at Mitchell to be eligible for graduation.

## **TRANSFERABILITY OF COURSES AND PROGRAMS**

When Mitchell became a junior college in 1925, transfer to senior institutions was its major purpose. Students have traditionally transferred to colleges throughout the nation with little or no difficulty if they did well at Mitchell. Since becoming a Community College in 1973, this institution has not changed.

An in-house Transfer Handbook is published for all counselors and transfer advisors. Also, the manual, *Policies of Senior Colleges and Universities Concerning Transfer Students from Two-Year Colleges in North Carolina* is used. College catalogs from all North Carolina universities, senior colleges, and junior and community colleges are kept current and are on file in the office of the Dean of Student Development. In addition, all universities and senior institutions are surveyed annually by the college for as much specific information as possible on transfers.

Technical and vocational programs were not designed for transfer; however, in recent years, some senior institutions have begun to receive selected technical courses and/or programs from community colleges. Such decisions and policies are made by individual senior institutions, and information is on file in the office of the Dean of Student Development.

## **CHANGE OF PROGRAM**

Students who change from one program to another within the institution will have credit hours and quality points transferred according to the requirements of the new program. All courses completed within the new program will be used to calculate the quality point average.

## **COLLEGE LEVEL EXAMINATION PROGRAM**

Credit may be allowed for up to 30 quarter hours of college work based on appropriate scores on the CLEP General Examination where appropriate to the student's program of study.

## **SERVICE EXPERIENCE**

Veterans may receive credit for USAFI courses and for service school training where appropriate to the student's program and where a comparable course is offered by the college. USAFI courses are evaluated on the basis of the catalog of the USAFI. Service School Training is evaluated on the basis of *A Guide to the Evaluation of Educational Experiences in the Armed Services*, published by the American Council on Education. Credit, not to



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exceed three quarter hours, is allowed for physical education to veterans upon presentation of discharge or separation papers appropriate to the veteran's course of study. Final acceptance or rejection of the credit lies with the college.





# EXPENSES

## STUDENT CHARGES AND REFUNDS

Mitchell Community College operates on the quarter system. Students are required to pay all charges at the time of registration. Tuition charges are set by the State Board of Community Colleges and are subject to change without notice.

1. Tuition and fees for each quarter are payable on or before the date of registration. Any student who is unable to make payment at that time must make a special arrangement with the Financial Aid Office.
2. Written verification for third party billing must be received by the business office before a student will be allowed to register without making payment at the time of registration.
3. A student is not eligible for re-registration who has an outstanding balance due to the college. This includes any outstanding balance at another institution of the Community College system, if known.
4. No student will be allowed to graduate, receive a diploma or certificate, or a transcript of his record, nor will any information concerning his record be forwarded to any other institution or other person so long as the delinquent account is outstanding.
5. Students failing to complete the registration procedure, which includes payment to the Business Office, during the designated registration period as printed in the catalog will be required to pay a \$5.00 late registration fee.

## GENERAL GUIDELINES FOR STUDENT CHARGES AND REFUNDS

### CURRICULUM COURSES

**Tuition:** Current tuition charges are \$6.25 for in-state and \$58.50 for out-of-state per quarter hour with a maximum charge of \$75.00 and \$702.00 per quarter respectively. Charges are shown below:

Quarter Hours	In-State	Out-of-State
1	\$ 6.25	\$ 58.50
2	12.50	117.00
3	18.75	175.50
4	25.00	234.00
5	31.25	292.50
6	37.50	351.00
7	43.75	409.50
8	50.00	468.00
9	56.25	526.50
10	62.50	585.00
11	68.75	643.50
12	75.00	702.00



Exceptions: Students who have paid tuition at one institution and are given permission to transfer to another institution shall be issued a letter verifying payment has been made for the quarter and the institution to which he is transferring will accept the letter in lieu of payment.

A student may enroll for the same quarter at two or more institutions and the total amount of tuition paid may not exceed \$75.00 or \$702.00.

Persons 65 or over are not required to pay tuition.

**Refunds:** Tuition refunds are made if, in the judgment of the institution, the student is compelled to withdraw from college for unavoidable reasons. The student is required to make his request in writing to the Dean of Student Development. If the request is approved, two-thirds of the tuition is refunded if the student withdraws within ten calendar days from the first day of classes for the quarter. Refunds of \$5.00 or less are not made. If a course or curriculum fails to materialize, all the tuition is refunded.

If a student withdraws after ten calendar days from the first day of classes, but before the end of the quarter for reasons excusable by the institution, the student may be allowed credit for the unrefunded tuition and fees if he enrolls during any of the next four calendar quarters and petitions in writing for such credit.

Students may receive full refunds for classes cancelled by the College; however, there will be no refunds for classes from which students withdraw.

If a student dies during the quarter, all tuition and fees for the quarter are refunded to the estate of the deceased.

**Library Fines:** A fee for lost books and over-due books is charged. If a lost book fee is charged and the book is later found and returned, the fee is refunded.

**Graduation Fees:** The following graduation fees are charged: Cap & Gown, \$12.00; Diploma or certificate, \$11.00.

If a student fails to meet the graduation requirements and the cap and gown package is unopened, the \$12.00 charge is refunded. If a student does not participate in graduation and asks that his diploma be mailed, a \$4.50 charge is made for registered mail.

**Audit Fee:** Tuition for auditing classes must be paid except in case of full-time students who may audit with no additional charge.

**Credit By Examination:** Tuition must be paid for credit by examination except in case of full-time students for whom there would be no additional charge.

**Parking:** Parking stickers are distributed at registration at no charge. A \$1.00 fine is charged for each parking violation after the first violation.

**Physical Education Fees:** The following physical education activity courses have fees as shown:

Horseback Riding	\$65.00		
Golf	15.00	Racquetball	20.00
Bowling	15.00	Swimming	20.00

If a student withdraws from the class before the first class meeting, the fee is refunded. No part of this fee is refunded after the first class meeting.

**Insurance:** A group accident insurance policy is available to students on a voluntary basis. Coverage is to and from school and for school-sponsored activities. The contract is September-September and the annual charge is



\$6.75 regardless of the quarter enrolled. There is no refund of insurance charges.

**Registration Fee:** There is no registration fee; however, students registering after the day of registration are charged a late fee of \$5.00.

**Student Activity Fee:** All students who take eight or more quarter hours are charged a \$9.00 student fee for the fall, winter, and spring quarters. A student pays a total of \$27.00 for the academic year if he is enrolled for all three quarters. The fee is distributed as follows:

Student Government	\$ 5.00
Athletics	\$ 2.00
Circle	\$ 2.00

All expenditures from these funds are related directly to student activities.

**Exceptions:** Students who take courses that are taught off campus are not charged a student activity fee. Persons who are employed as law enforcement officers and enroll in the Criminal Justice program are not charged the student activity fee.

**Refunds:** Rules governing student activity fee refund are the same as those for tuition refund.

**Transcripts:** No transcript is released without the written permission of the student. A \$1.00 fee is charged for each transcript.

**Books:** Cost of books will vary from program to program; however, most students pay an estimated \$300 for books for the academic year, with the first quarter charges being considerably more than the other two quarters.

**Special Fees:** Because of the nature of some programs, additional supplies, materials, tools, etc., may be required for purchase by the student. The following list gives the estimated cost for these items. The student is responsible for securing these items and monies are not handled by the institution.

Air Conditioning	\$60.00
Electronics Engineering	60.00
Electrical Installation	100.00
Automotive Mechanics	200.00
Drafting	60.00
Machinist	20.00
Industrial Maintenance	90.00
Welding	30.00
Freshman Associate	
Degree Nursing Student	175.00
Sophomore Associate	
Degree Nursing Student	500.00
Freshman Art Student	150.00
Sophomore Art Student	250.00

**NON-CURRICULUM EXTENSION COURSES**

**Tuition:** A non-refundable \$15.00 fee is charged for occupational classes. A registration fee of \$20.00 is charged for avocational, academic, and practical skills classes.

Exceptions: Students who are prison inmates are charged no registration fee.

Volunteer firemen, fire department personnel, volunteer rescue and lifesaving personnel, and local law enforcement officers are offered job-related training extension courses with no registration fee.

Patients of state alcoholic rehabilitation centers are charged no registration fee.

Clients of sheltered workshops and Adult Development Centers are charged no registration fee.

Students of courses supported by grants and funds derived from sources other than state appropriations are charged no registration fee.

Persons enrolled in the Adult High School Diploma class or GED prep class, are charged no registration fee.

Persons 65 years of age, or older, are charged no registration fee.

Institutions may sponsor self-supporting classes. Charges are whatever is necessary to pay for the class.

**1989-90 STUDENT BUDGETS  
FOR MITCHELL COMMUNITY COLLEGE**

**Students Living With Parents**

	<u>9 Months</u>	<u>12 Months</u>
Room/Board	\$1,500	2,000
Transportation	772	1,030
Clothing	378	504
Personal	709	945
Health	184	247
	<u>\$3,543</u>	<u>\$4,726</u>
Tuition/Fees	252	327
*Books	375	500
	<u>\$4,170</u>	<u>\$5,553</u>

**Self-Supporting Student**

	<u>9 Months</u>	<u>12 Months</u>
Room/Board	\$3,213	\$4,284
Transportation	772	1,030
Clothing	378	504
Personal	851	1,134
Health	257	341
	<u>\$5,471</u>	<u>\$7,293</u>
Tuition/Fees	252	327
*Books	375	500
	<u>\$6,098</u>	<u>\$8,120</u>

\*For Nursing Students the cost of Books/Supplies should be adjusted to reflect the following expenses:



	<u>1st Year</u>	<u>2nd Year</u>
1st Quarter	663	125
2nd Quarter	250	100
3rd Quarter	40	90
4th Quarter	<u>110</u>	<u>—</u>
	\$1,063	315

*Budget Derivation:*

Budget figures are derived from student surveys, local agencies, merchants, professional cost of living increase and national comparison data. Transportation is based on an average of 18 miles per day at 26 cents per mile.





## **VETERANS/NATIONAL GUARD/ RESERVES INFORMATION**

Persons enrolled in an approved program at Mitchell Community College will be eligible to receive Veterans Administration benefits if they qualify.

No school may have the authority to negotiate VA educational benefits checks either directly or indirectly. All educational benefit checks are mailed directly from the Veterans Administration to the veteran or eligible person. It is the student's responsibility to pay for tuition, fees and books.

All VA recipients are prohibited from receiving payment of educational benefits for auditing a course or for a course which is not used in computing graduation requirements, including any course from which the student withdraws unless there is a finding of mitigating circumstances causing withdrawal. Circumstances which directly hinder any eligible recipient's pursuit of a course and which are judged to be out of the student's control, illness, death in the immediate family, financial obligations which require a change in terms, hours, or place of employment which precludes pursuit of a course, discontinuance of a course by a school or active duty military service, including active duty for training may be considered mitigating.

The VA shall not approve an enrollment in any course for an eligible recipient, not already enrolled, for any period during which more than 85 percent of the students enrolled in the course are having all or part of their tuition, fees or other charges paid for them by the educational institution or by the VA pursuant to title 38, United States Code.

Standards of Progress... All VA recipients must meet the requirements for academic progress as set forth in the Catalog and the Student Handbook. Our procedure is to check each recipients overall QPA at the end of each quarter. If the student's overall QPA is below school standards, he is placed on probation for one quarter. If, at the end of this time, his QPA is still below the school's standard, he will be terminated with the Veterans Administration for unsatisfactory progress. If a recipients academic status falls into the category mentioned above, he will be referred to the Dean of Student Development to be placed on Conditional Status at the end of the quarter during which unsatisfactory progress has occurred. He will conduct the initial screening interview. If student is a recipient of VA educational benefits, it will be required he be placed on Conditional Status. The Dean of Student Development will develop and implement a plan with the student which will include minimum QPA he may attain for that conditional quarter. He will meet with the student on a scheduled basis. At the end of the conditional status quarter, the Dean of Student Development will review the student's academic progress. If progress is satisfactory according to the plan, the student will be removed from Conditional Status and be re-certified to the Veterans Administration retroactively to the beginning of that quarter (effective Fall, 1985.)

Vocational students receiving VA educational benefits must turn in time sheets to the Asst. Financial Aid officer at the end of each month. Delay in turning time sheets in may hold up checks. Each month these students will



receive a Certification of Attendance form which must be signed and submitted to the office of the Asst. Financial Aid Officer. Another check will not be mailed until this has been processed by the Veterans Administration.

All recipients must inform the Veterans Affairs Office of all academic drops of courses which change their status as full-time,  $\frac{3}{4}$  time, or  $\frac{1}{2}$  time. If the reason for dropping in credits is not due to mitigating circumstances, the VA will go back to the beginning of the quarter and charge that student with an overpayment. A student must also notify the Veterans Affairs Office of a withdrawal.

No money will be received from the Veterans Administration until the student has been certified by the Veterans Affairs Office at Mitchell. No certification will be mailed until students complete their files including high school transcripts, GED scores, and college transcripts where applicable. Certification should take place as soon as possible in order to avoid a delay in receiving the first check (it takes approximately 30 days from the date of certification before the first check is received.)

Certain documents may be required by the Veterans Administration for certification purposes. They are a certified copy (from the Courthouse) or member No: 4 of the DD 214 (discharge papers), a DD Form 2384 (Notice of Basic Eligibility for National Guard and Reservists only), and when applicable, certified copies of marriage certificates, certified copies of children's birth certificates and xerox copies of divorce papers of the Veteran and spouse. Check with the Asst. Financial Aid Officer to see which documents are required in order to be certified.

Benefits are determined by the academic course load as indicated in the table below:

College Transfer & Technical —

Full: 12 credit hours & above

$\frac{3}{4}$ : 9 to 11 credit hours

$\frac{1}{2}$ : 6 to 8 credit hours

Vocational —

Full: 22 contact hours & above

$\frac{3}{4}$ : 16 to 21 contact hours

$\frac{1}{2}$ : 11 to 15 contact hours

The Regional Office address is: Veterans Administration Regional Office, 251 North Main Street, Winston-Salem, N.C. 27102. The toll free number is 1-800-642-0841.

The telephone number for the Veterans Affairs at Mitchell is 704-878-3200. Call or visit this office any time for further information.

## **FINANCIAL ASSISTANCE INFORMATION**

The purpose of financial aid is to help students who would be unable to attend Mitchell without assistance. To be considered for aid an ACT Family Financial Statement must be completed and the Pell Grant must be applied for by checking the appropriate box on the form.

### **APPLICATION PROCEDURES FOR FINANCIAL ASSISTANCE**

1. Obtain the ACT forms from high school counselors or the Financial Aid Office at Mitchell Community College.
2. Complete and mail the forms to ACT in Iowa. Incomplete forms will not be processed. Be sure to check boxes applying to the Pell, and include the code for a report to be sent to Mitchell Community College.
3. Students must contact the Financial Aid Office when they receive reports from ACT and from Pell Grant.
4. Complete applications will then be considered by the Financial Aid Awards Committee. Students will be notified of decisions and the reasons for those decisions.

For more information contact the Financial Aid Office, Main Building, Room 216 or call 878-3200, extension 232 or 214.

### **DEADLINES**

The ACT forms should be mailed by the student at least two months prior to enrollment. Complete reports should be on file in the Financial Aid Office by:

- June 1 for Fall Quarter
- November 1 for Winter Quarter
- February 1 for Spring Quarter
- May 1 for Summer Quarter

To be considered for the N.C. Student Incentive Grant, the ACT form should be completed by March 15, prior to September enrollment.

### **TYPES OF AID AVAILABLE**

Pell Grant

Supplemental Educational Opportunity Grant (SEOG)

North Carolina Student Incentive Grant (NCSIG)

College Work Study (CWS)

Scholarships

North Carolina Insured Student Loans (Also known as GSL/Stafford Loan)

Veteran's Educational Aid (See Veterans' Officer)

After completing an ACT form and having a report sent to Mitchell, a student is considered for financial aid. The available funds are then distrib-



uted among eligible students according to need. Need is the difference between cost of education (expenses such as tuition, fees, room, books, supplies) and the amount the student and family can afford to pay. A student may receive several different awards. Grants are not repaid. Work Study awards must be earned as hourly wages for part-time work on campus. Loans must be repaid after the student's education is completed. The interest rate on Insured Loans is 8% with repayment beginning 6 months after leaving school.

Students denied financial aid are entitled to an explanation as to the basis for denial. Appeals must be made in writing to the Financial Aid Appeals Committee and addressed to the Financial Aid Officer within 10 days of receiving notification of denial of aid. The Financial Aid Appeals Committee shall convene for the purpose of hearing the appeal and notify the student as to the committee's decision.

### **CHECK DISBURSEMENT**

Financial aid checks may be picked up at the Business Office upon presentation of the student's valid MCC identification card. Check disbursement dates are as follows: Scholarships, SEOG, NCSIG and NCISL checks are available on registration days; Pell checks are distributed twice a quarter at registration and pre-registration; and College Work Study checks will be distributed on the 25th of each month.

### **RIGHTS AND RESPONSIBILITIES**

All aid applicants and recipients are entitled to know the following information:

- Cost of attendance and refund policies.

- Types of aid available, application procedures, and deadlines.

- Criteria used in selection of financial aid recipients.

- How financial need is determined and how much of the student's need has been met.

- Each type and amount included in the financial aid package; how and when the student will be paid.

- May request an alteration of their award at any time.

- Satisfactory progress guidelines.

- About Mitchell's programs and physical facilities.

- Names of its accrediting organizations.

- Special facilities and services available to the handicapped.

- Borrowers of educational loans have the right to know the interest rate on account owed, repayment schedule, and cancellation and deferment provisions.

- Work-Study participants have the right to know the type of job, hours, and rate of pay.

- All aid applicants are responsible for:

- Completing the financial aid application accurately, and submitting it on time to the right place.

Providing necessary information for verification, corrections, etc., when requested by the Financial Aid Office.

Informing the Financial Aid Office of any changes in their financial situation, mailing address, marital status, number of dependents, employment status, or academic program.

Accepting responsibility for reading and understanding all forms signed by student.

Borrowers of educational loans should notify the lender of any changes in name, address, or school status.

## **TRANSFER STUDENTS**

If a student transfers from one school to another, his/her financial aid does not automatically accompany. The student must take the necessary action to continue receiving financial assistance.

If a student is transferring to Mitchell, a financial aid transcript must be submitted from the previous school at the student's request.

If a student had a Pell Grant, he/she must get a copy of the Student Aid Report (SAR) to submit to the Financial Aid Officer.

A borrower from the NCISL/ Stafford Loan Program should check with the lender to be sure the loan can continue at the new school.





## SCHOLARSHIPS

Scholarships are awarded according to criteria established by donors. Additional scholarship sources are prevalent in the community through local profit and nonprofit organizations. For more information contact the Financial Aid Office.

THE ALUMNI SCHOLARSHIP was established in 1979 by the Mitchell Community College Alumni Association. The Scholarship will be awarded annually to a child or grandchild of an alumnus, with the stipulation that the recipient must maintain a 2.0 grade point average.

THE ANDERSON FAMILY SCHOLARSHIP was established by the Anderson family to assist students who wish to continue their formal education. The scholarship will be awarded annually to any student who has financial need. Application for the scholarship should be made to the Scholarship Committee.

THE APICS SCHOLARSHIP was established in 1988 by the Central Carolina Chapter #315 of American Production and Inventory Control Society. The scholarship will be awarded annually to a student at Mitchell Community College on the basis of need.

THE AUGUSTUS BARKER RAYMER AND DOROTHY DILLON RAYMER MEMORIAL SCHOLARSHIP was established in 1988 in memory of their contributions to their family, community, and church. These scholarship gifts were contributed to enrich the lives of other generations. Descendants of William P. Dillon and wife, Ruby McNeer Dillon, and Dewey L. Raymer, Sr., and Ethel B. Raymer will be given preference if they wish to further their education provided that they have good scholastic averages.

THE BEATY-FOX-LAZENBY MEMORIAL SCHOLARSHIP through Cool Springs United Methodist Church was established June 18, 1978 in loving memory of C.H. "Buck" Beaty, Earl D. Fox, and R.R. "Dock" Lazenby who loved and were dedicated to their church, school, and the community. This scholarship was established by Mr. & Mrs. Blaine Beaty, Dr. and Mrs. Frank Settle, Mr. and Mrs. Edgar Sowers, and Mrs. Blanch W. Lazenby and is awarded first to members of the above church and secondly, to any resident of the Cool Springs Community.

THE BELK-DOGWOOD SCHOLARSHIP was established in 1974 for the winners of the Statesville Dogwood Pageant. If none of the winners attend Mitchell Community College, the funds are awarded to other students based on need and academic standing. Amount varies.

THE W.K. BESS FAMILY SCHOLARSHIP was established in 1988 by Dan and Susan Williams in memory of Mr. and Mrs. W. K. Bess, Sr. and Mr. Kenny Bess. The scholarship will be awarded annually to any member of the W. K. Bess, Jr. family primarily or any descendent of Mr. and Mrs. W. K. Bess, Sr. secondly on the basis of wanting to attend Mitchell Community College in any curriculum.

THE BRADY MEMORIAL ORGAN SCHOLARSHIP was established by the employees of Brady Printing Company, family and friends honoring the late James A. Brady, who often expressed particular interest in the Organ Department and had hoped that more talented and ambitious young persons would study organ. Auditions will be held for the scholarship, which

will be awarded to an Iredell County resident for the study of music at Mitchell Community College.

THE BUNCH SCHOLARSHIP FOR EXCELLENCE was established and endowed by the family of Lizzie May Pardue Bunch. Because of her interest in the education of young persons, the scholarship will be awarded to a second year student or students, on the basis of scholarship, character, and leadership potential.

THE FRED B. BUNCH, JR. SCHOLARSHIP was established in 1981 by his family and friends in memory of Fred's contributions to the community and his support of Mitchell. He served as a member of the Board of Trustees for a number of years and as Chairman from 1967-1970. Applications should be submitted to the Scholarship Committee. The scholarship will be awarded from fund earnings and priority will be given to a student having academic potential and needing assistance in achieving educational goals at the college.

THE WILLARD GOOGE CARITHERS SCHOLARSHIP was established by a gift from Mrs. Carithers' Estate and donations from her friends and family. Because of her interest in young people, fine arts, and the college, the earnings of the scholarship fund will be awarded annually with priority given to Iredell County residents demonstrating talent in fine arts, having financial need, and interested in pursuing their studies at the college. Applications should be made to the Scholarship Committee.

THE CARTER SCHOLARSHIP was established in 1974, in memory of Dr. and Mrs. Joe Carter and will be awarded as funds are available.

THE CITY OF PROGRESS LIONS CLUB OF STATESVILLE SCHOLARSHIP was established in 1987 by the City of Progress Lions Club. The scholarship will be awarded annually to the student through Mitchell Community College on the basis of need (with preference given to the sight impaired student) and academic achievement.

THE RUTH GAIL CONGER SCHOLARSHIP was established in 1982 by the Quota Club of Charlotte in loving memory of their charter president and honorary member, the late Ruth Gail Conger, for her outstanding leadership and contributions of service to the work of the Quota Club and for her concern for and interest in the education of young people.

THE DAVIS COMMUNITY HOSPITAL SCHOLARSHIP LOAN PROGRAM was established in 1987 to provide financial assistance to student nurses in their educational efforts toward the payment of their tuition, fees, books, supplies, and required physical examinations. The student must be enrolled in the clinical nursing courses, and for each school year the scholarship is given, the student will be required to repay the hospital by working 2,080 hours for one calendar year. For further information, contact the Financial Aid Officer at Mitchell Community College, the Director of the Associate Degree Nursing Program at Mitchell Community College, or the Director of Nursing at Davis Community Hospital.

THE JOSEPH DAVIS SCHOLARSHIP was established in 1983 by Mrs. Jessie Davis Hardy in memory of her brother. Priority in awarding the scholarship will be given to descendents or relatives of their father, Jesse Tilden Davis as well as students interested in business or industrial mainte-



nance. Applications should be made to the Mitchell Community College Scholarship Committee.

THE THOMAS LEE AND ETHEL AUSTIN DYSARD MEMORIAL SCHOLARSHIP was established in 1986 by Mrs. T. L. Dysard, Jr. The scholarship will be awarded annually to a full-time student who is preferably an Iredell County resident enrolled in a religion course.

THE ELKS LODGE #1823 AWARD SCHOLARSHIP was established in 1986 by the Statesville Elks Lodge #1823. The scholarship will be awarded annually to two full-time students attending Mitchell Community College on the basis of merit and need.

THE ELECTRIC SUPPLIES OF STATESVILLE SCHOLARSHIP was established in 1985 by Allen Deal of Electric Supplies of Statesville, Inc. It is awarded annually to a full-time student planning a career in the electrical area. Preference will be given to Iredell County residents.

THE EXCHANGE CLUB SCHOLARSHIPS were established in 1977. The three annual scholarships are awarded to Iredell County residents demonstrating need and a desire for education. Each scholarship provides tuition and fees for three quarters.

THE LOUIS AND CHARLOTTE GORDON MEMORIAL SCHOLARSHIP was established in 1978 by Gordon Industries, Inc. in memory of the late Louis and Charlotte Gordon for their contributions to humanity and for their deep interest in and concern for young people. The scholarship will be awarded annually to a young Iredell County resident on the basis of financial need.

THE MISS ELIZABETH HILL FAMILY NURSING SCHOLARSHIP was established in 1986 by the family of Miss Elizabeth Hill who established the Davis Hospital School of Nursing and spent most of her adult life educating professional nurses. The scholarship will be awarded annually on the basis of need and grades. Descendents of graduates of the Davis Hospital School of Nursing will be given first consideration.

THE FRANK HOLLAND MEMORIAL SCHOLARSHIP was established in 1983 by the Home Builders Association of Statesville-Mooresville, Inc. It is awarded annually to a graduate of one of the five area high schools who is enrolled in the vocational field.

THE HOME BUILDERS ASSOCIATION OF STATESVILLE-MOORESVILLE, INC. SCHOLARSHIP is awarded annually to a graduate of one of the five area high schools who is enrolled in the vocational field.

THE HOLBROOK NURSING SCHOLARSHIP was established in 1984 with a gift from the Davis Hospital Foundation. The Board of Trustees named the scholarship in honor of Dr. J. Sam Holbrook not only for his support of Nursing Education in the area, but for his years of service to Mitchell as a supporter and trustee. The scholarship will be awarded annually from the earnings of the endowment; based on performance and need of the applicant; and selected by the Scholarship Committee.

THE HUNT MANUFACTURING COMPANY SCHOLARSHIP was established in 1983 by the Hunt Manufacturing Company Foundation. The selection of the recipient is based on academic promise.

THE IREDELL CONTAINER CORPORATION SCHOLARSHIP was established in 1986 in support of Mitchell Community College and as a part of the Community Service Program of Iredell Container Corporation. The scholarship amount will be determined by the needs of the recipient based upon the selected program of study. A scholarship will be awarded annually, and applications should be made to the Scholarship Committee.

THE IREDELL MEMORIAL HOSPITAL, INC. SCHOLARSHIP-LOAN PROGRAM was established in 1987 in order to encourage more students to pursue a career in nursing. The scholarships will be awarded annually to students who are enrolled in the clinical nursing courses at Mitchell Community College. In exchange for the scholarship the student must agree to work at Iredell Memorial Hospital, Inc. one year for each year the scholarship is received. For further information, contact the Financial Aid Officer at Mitchell Community College, the Director of the Associate Degree Nursing Program at Mitchell Community College, or the Chief Executive Officer at Iredell Memorial Hospital, Inc.

THE IRMA HOLMES HALL LIBRARY SCHOLARSHIP, which is endowed by friends of Mrs. Irma Holmes Hall and her husband, W. Frank Hall, was established to encourage students interested in library science as a vocation. The scholarship will be awarded from endowment earnings.

THE J.C. PENNEY COMPANY SCHOLARSHIPS were established in 1987 by the J.C. Penney Community Grants Committee. The scholarships will be awarded annually to four deserving students. One scholarship will be reserved for a member of the immediate family of a J.C. Penney employee. If a person meeting this requirement does not apply, then it may be awarded to any deserving student on the basis of academic promise.

THE JOEL MARLIN MEMORIAL SCHOLARSHIP was established in 1985 by Larry Marlin in memory of his father Joel Marlin. The scholarship will be awarded annually to any deserving student who might otherwise be unable to attend college on the basis of need.

THE JOHNNY WAYNE MCLAIN SCHOLARSHIP was established in 1966 in memory of Johnny McLain, by friends of his family and members of the Concord Presbyterian Church, Loray Community, Statesville. He was the first soldier from his church killed in Vietnam. The amount of the scholarship is to be determined by the earnings from the principle sum, and awarded to students accepted for admission at Mitchell Community College and recommended by the Concord Presbyterian Church.

THE JUNIOR SERVICE LEAGUE SCHOLARSHIP was established in 1985 by the Statesville Junior Service League. It is awarded annually to a woman returning to school on the basis of need.

THE K. C. ELLER LEADERSHIP AWARD is given each year to a rising sophomore who has demonstrated leadership traits characterized by Mr. Eller, who served as chairman of the Mitchell Community College Board of Trustees from July 1, 1973 until his death on February 10, 1975.

THE PHILLIP FEIMSTER MEMORIAL SCHOLARSHIP was established in 1981 in memory of Phillip Feimster, an outstanding student athlete. The scholarship is awarded on the basis of leadership, athletic ability, and financial need.



THE LOUISE GILBERT ART SCHOLARSHIP was established in 1977 by the Margaret Raynal Bible Class of First Presbyterian Church in memory of Louise Gilbert for her contribution to the College and community in the field of art. The scholarship will be awarded annually to an art student with preference being given to a student from Iredell County.

THE MARY AND SAM JONES SCHOLARSHIP FUND was established in the will of Sam P. Jones, to be awarded to Iredell County student(s) at the sound discretion of the Board of Trustees. The first recipient was named for Fall of 1977. The amount is to be determined by income earned on the trust fund.

THE LAKE NORMAN REGIONAL MEDICAL CENTER TUITION ASSISTANCE AGREEMENT was established in 1988 to encourage more students to pursue a career in nursing. The scholarship is awarded to Associate Degree Nursing students at Mitchell Community College. If, after successful completion of a degree, the recipient becomes employed by the Hospital, the scholarship-loan will be forgiven at the discretion of the hospital.

MEMORIAL SCHOLARSHIPS are funded by donations received as memorials. The awards are made from available funds to students who have financial need which is unmet by other sources.

THE LAURENCE MCLELLAND SCHOLARSHIP was established in 1986 by the Young Adult Class of Mountain View United Methodist Church and the family of Laurence McLelland. The scholarship will be awarded annually to a second year nursing student who is hard working and shows initiative on the basis of financial need and academic promise.

THE MICHAEL WILKIE MEMORIAL SCHOLARSHIP was established in 1988 by Mr. and Mrs. John Wilkie. The scholarship will be awarded annually to a graduate of North Iredell High School who plans to attend Mitchell Community College on the basis of financial need and the recommendation of the high school guidance counselor. The recipient must maintain a quality point average of at least 2.5.

MISS ELIZABETH HILL NURSING SCHOLARSHIP established in 1983 in honor of Miss Elizabeth Hill who established the nursing school at Davis Hospital and spent most of her adult life educating and supervising professional nurses. The endowed program is funded from earnings of the Macie Reagan Freeze Estate by trustees Jack R. Harris and T.C. Homesley, Jr. Awards will be made to promising students or applicants from the earnings of the endowment based on selections by the Scholarship Committee.

MITTIE HUSKINS CALDWELL NURSING SCHOLARSHIP FUND established in 1982 by J. P. Huskins in memory of his sister Mittie Huskins Caldwell who spent most of her adult life nursing young minds. Awards will be made from the earnings of the endowment to promising students or applicants of the Associate Degree Nursing Program based on selection by the Scholarship Committee.

THE MITCHELL COMMUNITY COLLEGE ART CLUB SCHOLARSHIP was established in 1977 by students of art at Mitchell Community College. Students raise money annually through various fundraising activities. The award pays full tuition for an academic year, and is awarded annually to an entering freshman on the basis of high school art achievements.

THE JANE SHAW MYERS MEMORIAL SCHOLARSHIP was established in 1985 in loving memory of Jane Shaw Myers, who during her short lifetime was dedicated to her school teaching profession. The scholarship is endowed by the descendents of John Calvin and Della Hatchet Fox to be awarded to Jane's cousins and their families and to Jane's children and their families.

THE MURDOCK SCHOLARSHIP was endowed by Mr. and Mrs. Harvey Murdock. A recipient must be from Iredell County and make application to the Mitchell Community College Scholarship Committee.

THE NORTH CAROLINA COMMUNITY COLLEGE SCHOLARSHIP PROGRAM was established in 1984. The scholarships will be awarded annually to needy students based on the guidelines set up by the Department of Community Colleges. Applications should be made to the Mitchell Community College Scholarship Committee.

THE THOMAS D. NOLEN, SR. SCHOLARSHIP was established in 1986 by his wife Mrs. Julia H. Nolen and their family and friends. The scholarship will be awarded annually to an Iredell County resident on the basis of need and interest in higher education.

THE ORA AND MARY EDNA MATHESON SCHOLARSHIP was established in 1988 by their family and friends in memory of their love of education, their contributions to the community, and Mary Edna's contributions to Mitchell over thirty-two years of service. She taught business, served as Business Manager, and was secretary for the Board of Trustees. Applications should be submitted to the Scholarship Committee. The scholarship will be awarded from fund earnings and priority will be given to a student having academic potential or demonstrating academic ability.

THE OWLETTES CLUB SCHOLARSHIP was established in 1985 by the Owlettes Club Scholarship Fund. The scholarship will be awarded annually to preferably a sophomore Black American seeking a Baccalaureate Degree on the basis of leadership potential and academic achievement.

THE J.C. PENNEY COMPANY SCHOLARSHIPS were established in 1987 by the J.C. Penney Community Grants Committee. The scholarships will be awarded annually to four deserving students. One scholarship will be reserved for a member of the immediate family of a J.C. Penney employee. If a person meeting this requirement does not apply, then it may be awarded to any deserving student on the basis of academic promise.

THE PURPLE HEART SCHOLARSHIP was established in 1959 by Chapter No. 285 of the Military Order of the Purple Heart of the United States of America, Inc. in memory of Pfc. Lee Roy Smith, S/Sgt. Hugh Smith Denny, and Sgt. John Troy Troutman, three Iredell County veterans killed by enemy action in the line of duty. The scholarship is to be awarded to Iredell County residents, based on scholastic ability and need, with priority given to direct descendents of Purple Heart veterans and other veterans.

THE PHI BETA LAMBDA SCHOLARSHIP was established by the Zeta Alpha Theta Chapter of Phi Beta Lambda. It is awarded to an outstanding business student on the basis of academic merit and financial need.



THE GEORGE A. SCOTT SCHOLARSHIP was established in 1971 in loving memory of George A. Scott, who, during his short lifetime, showed a dedication to the church, a deep sense of community responsibility, and a concern for education by serving as a Mitchell College trustee. The scholarship is endowed by his business associates and friends in appreciation of the example which he set. It will be awarded annually to children of employees of Ross Furniture Co., Inc. and Statesville Chair Company. Should there be no applicants from employee families, it may be awarded to other deserving Iredell County students.

THE SOUTHERN BELL TELEPHONE AND TELEGRAPH COMMUNITY COLLEGE SCHOLARSHIP PROGRAM was established in 1986. Two scholarships will be awarded annually to residents of North Carolina pursuing a degree at Mitchell Community College. Students with the greatest financial need are given top priority.

THE SPANN, MAGNUM, CROOM & DOCKERY MEMORIAL SCHOLARSHIP was established in 1974 by the Spann, Magnum, Croom & Dockery Board of Directors for their outstanding leadership in the Statesville community. It will be awarded annually to a minority student recommended by a board member or members, on the basis of need, commitment and leadership.

THE STATESVILLE ASSOCIATION OF INSURANCE WOMEN SCHOLARSHIP was established in 1986. It is awarded annually to one graduate of each of the four area high schools.

THE STATESVILLE BRICK COMPANY SCHOLARSHIP was established in 1976 by the management of Statesville Brick Company to assist employees and their children who are interested in the acquisition of educational skills.

THE STATESVILLE BRICK COMPANY STRUCTURAL CLAY PRODUCTS SCHOLARSHIP was established in 1988. Two scholarships will be awarded to students enrolled in the program leading to an Associate of Applied Science Degree in Structural Clay Products Technology. The scholarships are renewable for a second year if the student maintains a quality point average of 2.00 or greater.

THE STATESVILLE CITY OF PROGRESS KIWANIS CLUB SCHOLARSHIP was established in 1975 in memory of the late Mike Courain, who was dedicated to the youth of his community. It is to be awarded annually to an outstanding Key Club or Keywanette member from one of the Iredell County high schools.

THE STATESVILLE COMMUNITY CLUB SCHOLARSHIP was established in 1967 honoring Mrs. Thomas E. Anderson and her daughters, Miss Grace Anderson and Miss Ina Anderson. Both Mrs. Anderson and Grace were teachers at Mitchell College. It is endowed by funds from the Statesville Community Club and held in trust by the First Union National Bank. The scholarship is to be awarded annually to worthy residents of Iredell County who are interested in advanced education.

THE STATESVILLE JAYCEES SCHOLARSHIP was established in 1986 by the Statesville Jaycees. The scholarship will be awarded annually to a deserving female student and a deserving male student on the basis of selection by the Mitchell Community College Scholarship Committee.

THE STATESVILLE KIWANIS CLUB SCHOLARSHIP was established in 1977. It is to be awarded annually to a resident of Iredell County, based on academic achievement and financial need.

THE STATESVILLE RECORD AND LANDMARK SCHOLARSHIP was established in 1962 by employees of the Statesville Record and Landmark, in order to assist employees and their children. The amount is to be determined by interest on the principal sum, which is to be added to the principal in the event that the scholarship is not awarded. If there are no eligible applicants, the award may be given to an Iredell County resident. The scholarship must be awarded at least every five years.

THE STIMPSON CITY EMPLOYEE SCHOLARSHIP was established and endowed for the benefit of the employees of the City of Statesville, and will be awarded to an employee or a member of the employee's immediate family.

THE E. B. STIMSON MEMORIAL SCHOLARSHIP was established in loving memory of "Cap" Stimson, who for many years served as the head of Mitchell College Music Department. It is endowed by the MacDowell Music Club and friends of the Stimson family. Candidates for the music scholarship must audition before a select panel of judges.

THE SUB EXPRESS FELLOWSHIP was established in 1985 by Frances Fairey of the Fairey Enterprises. It is awarded annually to a Mitchell Community College art student who is responsible for scheduling and hanging at least five exhibits per year at the Sub Express. Contact the Art Department of Mitchell Community College.

THE HENRIETTA WALLACE SCHOLARSHIP was established in 1982 by Constance and Julius Aronson in memory of their sister, the late Henrietta Wallace, who studied music at Mitchell and had a deep love for the arts. The scholarship will be awarded annually to a music major on the basis of audition and financial need.

THE WACHOVIA TECHNICAL SCHOLARSHIP was established by the Wachovia Bank and Trust Company for two second year technical students demonstrating financial need, scholastic promise, and prior successful academic performance at Mitchell.

THE BILLY WATT MEMORIAL SCHOLARSHIP was established by William N. and Hilda S. Watt in memory of their son, Billy Watt. The scholarship will be awarded annually to graduates or seniors of Alexander Central High School. Applications for the scholarship should be made to the Alexander Central High School Scholarship Committee.

THE WILLIAM T. "BILL" SHORE, JR. SCHOLARSHIP was established in 1986 by Craig Shore, a music student at Mitchell Community College, to show his appreciation for the Music Department of Mitchell Community College. The scholarship is awarded to a music student as selected by the Mitchell Community College Scholarship Committee.

THE PAUL AND ANNIE MCGILL WILSON SCHOLARSHIP was established in 1979 from the estate of Annie McGill Wilson, Class of 1924. Preference shall be given to students who are interested in library science, have financial need, and demonstrate academic talent.



## SATISFACTORY ACADEMIC PROGRESS FOR FINANCIAL AID

Financial Aid recipients, in addition to maintaining the cumulative quality point average specified on page 47 of the College Catalog, must complete 8 credit hours per quarter if full-time, 6 credit hours if three-quarter time, and 4 credit hours per quarter if half-time. The maximum number of quarters to complete the degree for financial aid purposes are as follows:

	No. of Quarters in College Transfer	No. of Quarters in Technical	No. of Quarters in Vocational
Full-time	12	13	9
Three-quarter time	16	17	12
Half-time	24	25	18

If a recipient does not meet the grade point average and minimum hours completed per quarter, the student will be placed on academic probation the proceeding quarter. If at the end of the probationary period, the qualitative and quantitative aspect of satisfactory progress has not been met, the student will be notified of termination from financial aid. Reinstatement can be made by meeting the satisfactory progress guidelines or by the appeal process.

Mitigating Circumstances — Due to the additional requirements set forth by the Federal government and the importance of student notification, catalog revisions and consumer information, the policy will not be enacted retroactively, but will become effective with the 1984-85 academic year. The policy will be reviewed periodically to determine its effectiveness and purpose.



## **Student Life**

Mitchell Community College is interested in helping each student develop to his fullest potential. With this goal in mind, the college strives to offer a comprehensive program in academics as well as social and cultural activities to build a well-rounded person.

### **STUDENT RESPONSIBILITY**

Students at Mitchell Community College are expected to conduct themselves as ladies and gentlemen in accordance with generally accepted standards of morality and decency at all times. The college is in accordance with Federal, State, and local statutes and will cooperate with the respective law enforcement agencies in their enforcement. The code of Student Conduct and Student Appeals procedure are detailed in the Student Handbook, which is distributed to each student enrolled in a curriculum program or course.

### **PRIVACY RIGHTS**

The College recognizes and assumes responsibility for the protection of student rights regarding privacy. Consequently, the official academic record is open to the student upon written request by him. The forwarding of information to any other agency will occur only when the student requests in writing that it be sent. Students' Rights and Privacy Policy is printed in the Student Handbook.

### **VEHICLE REGISTRATION**

All vehicles driven on the college campus must be registered and have a parking permit properly displayed. Any violation of college traffic rules and regulations will result in a fine.

### **HANDICAPPED STUDENTS**

Special parking facilities are available to handicapped students. Requests for special parking permits are to be submitted to the Dean of Student Development.

All permanent instructional facilities are readily accessible by handicapped students. Art and music are taught in temporary facilities. Special arrangements will be made for handicapped students who desire to use these facilities.

The Affirmative Action Officer is the person to contact for additional information concerning facilities for the handicapped. His office is in Frazier House.



## **FACULTY ADVISORS**

Upon completion of the admissions process each student is assigned an advisor. In technical and vocational areas these advisors are the primary instructors. In the college transfer area advisors are randomly assigned. Recognizing that advisee-advisor relationships are as important as classroom instruction, advisors are available daily for assistance in needed areas. Specialized assistance is available through the Dean of Student Development.

## **PLACEMENT SERVICE**

Mitchell Community College offers job placement service to students for part-time or regular employment. The services of the Job Placement Office are available to current and graduating students, alumni, and prospective employers.

Graduating students are given counsel and assistance in preparing for job placement. Information pertaining to job opportunities is provided, along with assistance in gathering and presenting information to prospective employers. Interviews are arranged for representatives of business and industry who visit the campus to recruit prospective employees. Further information may be obtained from the Job Placement Office.

## **COUNSELING**

Counseling and guidance services are provided by the college to aid students in determining their vocational and educational programs as well as assisting in resolving problems of a personal nature which might affect progress toward educational objectives. Professionally trained counselors are available.

## **HEALTH SERVICES**

Persons who desire to see a doctor may check the Student Development Office for the names of local doctors who work closely with the college. Serious injuries should be referred immediately to the emergency room at Davis Hospital, or to Iredell Memorial Hospital.

## **ATHLETICS**

Mitchell Community College fields intercollegiate athletic teams in golf and tennis. The institution is a member of the Western Tarheel Conference. Students interested in competing in these sports should see the coaches.

## **INTRAMURALS**

The Intramural Program is open to all students and college employees who believe that this program would improve their personal outlook on life, physical and mental well-being and social happiness. It is not designed as a practice opportunity for varsity athletes. With this in mind, all students who have previously been a member of a varsity program are ineligible for Intramurals at Mitchell Community College in their specialized areas.

## **STUDENT ORGANIZATIONS**

Mitchell Community College encourages students to be active in affairs of the institution. Through organizations, the students will find opportunities for entertainment, making new friends, leadership, and service to the college community.

All student organizations must be approved by the administration and Student Government Association. Each organization must have a copy of its constitution or purpose which includes a statement of open membership without regard to race, color, religion, handicap, sex, creed, or national origin, and the name of a faculty advisor on file with the Student Government Association.

## **STUDENT GOVERNMENT ASSOCIATION**

The purpose of the Student Government Association is to help each student develop a personal sense of pride for and responsibility to the college, and to accept his democratic responsibilities as an American citizen.

The Student Government Association acts as an intermediary between the student body and the administration of the college, serving as a student forum representing the student to the college faculty and administration. It also cooperates with the administration in the coordination and the supervision of student activities. All students who pay activity fees are members of the Student Association.

## **PUBLICATIONS**

The Office of the Dean of Student Development is responsible for student publications that are published periodically throughout the year. The purposes of these publications include: dissemination of information, establishment of channels of communications, development of student initiative and responsibility, and publication of a permanent record of events and activities. The college retains rights of editorship of its publications.

The "Circle" is the college yearbook. It is published annually.

The "Student Handbook" is the student's guide. It is published annually.

The "Transfer Handbook" is published annually.

The "College Catalog" is published bi-annually.

The "Activity Calendar" is published monthly.

The "Bulletin" is published weekly.

The "Dimensions" is the literary magazine. It is published annually.



## THE LEARNING RESOURCES CENTER

The Learning Resources Center provides resources and services which support the instructional program at Mitchell.

Reader services include reference assistance, book selection, and interlibrary loans. Audiovisual services include equipment for viewing and listening and production facilities.

The Dewey Classification System is used for cataloging all materials. Cards are filed in a dictionary type card file. All materials—books, pamphlets, films, slides, videotapes, records, audiotapes—may be located by consulting the card catalog for author, title, or subject.

The Audiovisual Production Center provides facilities for production of

— audiotapes (plus duplication of tapes)

— videotapes

— transparencies

— lamination

— dry mounting

— encapsulation

— signs, posters, lettering

— photography—black/white, color

Copy facilities include a coin operated copier, a microfilm reader/printer, and microfiche reader/printer. Copy is ten cents per page.

The paper-back section offers classics and current best sellers.

College catalogs—from most of the colleges and universities in North Carolina and a few out-of-state are available for check out.

The Mitchell LRC houses only one special collection. The “History Room” holds a combination of the history of Mitchell College, Iredell County, and North Carolina. Included in the collection are early Iredell County Newspapers, from 1897-1954.

A reading room on second floor is furnished with lounge type seating as well as study tables. This room has a fireproof wall so that students may be free to smoke without endangering the rest of the building.

A typing room on second floor is equipped with electric typewriters.

Books are checked out for a period of two (2) weeks. A fine of five cents (.05) per day is charged for overdue books.

The LRC is Open:

Monday - Thursday	8 A.M. - 10 P.M.
Friday	8 A.M. - 5 P.M.
Sunday	1 P.M. - 5 P.M.
Quarter breaks	8 A.M. - 5 P.M.
Summers - Closed Friday - Sunday	

## COLLEGE INFORMATION OFFICE

The Mitchell Community College Information Office is the college's official information agency, responsible for communicating to the public the word about Mitchell programs and people. This task is accomplished through the use of news releases, exhibits, speaker's bureau and other similar media.

## STUDENT UNION

Mitchell Community College provides a Student Union for the convenience of the students. The union houses a student lounge area with recreational facilities. In addition, food service is available for breakfasts, lunches and snacks.

The Student Union is open from 7:30 a.m. to 8:00 p.m., Monday through Thursday, and from 7:30 a.m. to 1:00 p.m. on Friday.

## BOOKSTORE

The College operates a Bookstore on the second floor of the Student Union. Both new and used textbooks are sold, plus general school supplies, and cloth goods. The normal hours of operation are: 9:00 a.m. to 12:00 noon, Monday through Friday, and at other times by appointment. During registration, and the first week of classes, the Bookstore is open longer hours to accommodate the students.





# Academic Regulations

## QUARTER SYSTEM

Mitchell operates on a four quarter system. The fall, winter, spring and summer quarters are each approximately eleven weeks in length with additional summer sessions divided into two 5½ week sessions. The college is in session five days a week. Classes normally meet hourly for fifty minutes with a ten minute break between them. The number of times that a class meets each *hour* per week is determined by the number of quarter hours credit.

Quarter hours credit is awarded as follows: one quarter hour of credit for each hour per week of class lecture, one quarter hour of credit for each two hours per week of laboratory work, and one quarter hour of credit for each three hours per week of shop practice.

## REGISTRATION

All students are required to register at the beginning of each quarter of attendance. Students attending courses for which they are not officially and completely enrolled will receive neither grade nor quarter hour credit for the course. Most students fall into this category when they have not completed registration or formal course addition. Formal registration includes payment to the Business Office. Because a student is listed in the teacher's roll book does not necessarily mean that he is enrolled for the course. Formal completed enrollment is based on the official class rosters generated by the Registrar's Office as soon as possible after registration week. Students whose names are not on that roster should be so advised, and completion of enrollment then becomes the student's responsibility.

## RESIDENCE — AND — TUITION STATUS

Residence status is established for tuition purposes when a student enrolls. An application for this purpose is completed during the registration procedure.

Appeals may be made to the Dean of Student Development when a student questions the status, or when a student's status changes. If the student is not satisfied with the decision at this point, appeals may be made to the State Residence Committee.

## CHANGE OF SCHEDULE

Changes in a class schedule after registration must be made in the office of the Registrar.

The last day that courses may be added each quarter (normally three days after registration) is stated on the college calendar. Any student wishing

to drop a course must complete the drop procedure processed through the office of the Registrar and the Business Office.

### **STUDENT COURSE LOAD**

A student must register for 12 credit hours per quarter in college transfer and technical programs, and 22 contact hours in vocational programs to be considered a full-time student, and the course load must not drop below these hours per quarter. These requirements are minimal to receive full V.A. benefits.

The normal course load varies with each program. For college transfer the course load is 16 credit hours per quarter while the normal course load for the technical programs is 18 credit hours per quarter. Vocational programs normally consist of at least 22 contact hours per week.

A student may not register for more than 21 credit hours without approval of the Dean of Student Development, unless required by one's occupational curriculum. Approval of an overload will be determined on the basis of past achievement of the student.

It is recommended that students who are employed either on a part-time or full-time basis consult with their faculty advisors to determine the course load appropriate for their particular case.

### **CLASSIFICATION**

A student is classified as a freshman from initial enrollment until 45 quarter hours credit have been earned, at which time he/she is classified as a sophomore. For student activities purposes, the student must have been enrolled for a minimum of three quarters before he/she is classified as a sophomore.

### **ATTENDANCE POLICY**

Regular class attendance is considered to be a vital ingredient in scholastic achievement and is one of the many responsibilities of the college student. As a result students are expected to be in attendance for each class meeting unless prohibited by uncontrollable events.

No absence exempts the student from completing the work assigned during the absence. The student will assume the responsibility of determining what work was missed and completing the work.

Once a student has properly registered and paid the necessary registration fees, the student shall be enrolled in said class until one of the following occurs:

1. Student Withdrawal
  - A. He/she officially withdraws (this constitutes student withdrawal and is effective as of that date.)
2. Administrative Withdrawal
  - A. He/she fails to maintain contact with instructional personnel for two consecutive weeks. (Evidence of maintenance of contact may



be through class attendance, submission of course assignments, personal contact, or telephone contact.)

- B. The responsible instructional personnel are reasonably assured that the student does not intend to pursue the learning activities of the class. (This constitutes administrative withdrawal and is effective as of that date.)
- C. He/she completes the minimum objectives stated for the class, or transfers to another class.

Students will be given specific class attendance policies by each division at the beginning of each quarter.

## GRADING SYSTEM AND QUALITY POINT AVERAGE

The 4.00 quality point system is used to calculate student quality point averages. The letter grades used are:

- A — Excellent — 4 quality points per quarter hour \*P — Pass
- B — Good — 3 quality points per quarter hour \*NP — Non-Pass
- C — Average — 2 quality points per quarter hour
- D — Passing — 1 quality point per quarter hour
- F — Failed — No quality points per quarter hour
- I — Incomplete — Work must be completed satisfactorily within the next quarter, except that, where circumstances warrant, the instructor may approve an extension of time up to one year from the closing date of the course. If the "I" has not been removed by the designated date, a grade of "F" will be recorded.
- W — Withdrawal — Denotes official withdrawal from school.
- AU — Audit — No grade or quality points.

The quality point average is calculated by dividing the total number of quality points earned by the total number of quarter hours attempted, including both courses passed and failed, unless the courses have been repeated. When a course is repeated, the last grade earned will be included in calculating the QPA. All courses attempted will be shown on the official transcript.

A "C" average is required for graduation. On the 4.00 quality point system, a "C" average is a 2.00 quality point average.

\*Given for developmental courses only. Institutional credit only is awarded. Hours are not counted toward graduation and are not figured in the student's quality point average.

## GRADE REPORTS

Records of progress are kept by this institution on veteran and non-veteran students alike, and progress records are furnished all students at the end of each scheduled school quarter.

### **DEAN'S LIST**

The Dean's List is published at the end of each quarter. Any student who is enrolled for at least twelve quarter hours and earns a quality point average of 3.5 for the quarter with no grade below "C" will be on the Dean's list for that period.

### **CLASS HONORS**

Any student enrolled for at least twelve quarter hours each quarter and maintaining a 3.30 average or higher for any one year will be eligible for Class Honors at Graduation.

### **COLLEGE HONORS**

Any student enrolled for at least twelve quarter hours each quarter and maintaining a 3.30 average or higher for all work attempted while at Mitchell Community College will be eligible for College Honors at graduation.

### **GRADUATION MARSHALS**

The graduation marshals are those freshmen who have the highest grade point average for their first two quarters and have earned a minimum of 30 quarter hours. They will assist in graduation exercises.

### **SATISFACTORY ACADEMIC PROGRESS**

The following scale will be used as a basis for determining a student's status for certification purposes to the Veteran's Administration, Social Security, Vocational Rehabilitation, student loans and scholarship agencies, conditional status, and other private or public agencies requiring such information.

Students receiving financial aid must maintain satisfactory academic progress to continue receiving aid. The total hours attempted are utilized in the computation of the overall, accumulative quality point average. This includes both courses passed and failed, unless the course has been repeated. When the course is repeated, the last grade earned will be included in the calculation of the quality point average. For further information, see the Financial Aid Section of the catalog.

Veteran students must meet the requirements for academic progress as set forth below. If a veteran does not meet this requirement, he will be placed on academic probation for one quarter. If he does not bring his overall grade point average up to within school standards by the end of that



quarter, he will be terminated with the Veterans Administration in Winston-Salem. The procedure for reinstatement of VA benefits is given on page 30.

Degree Programs		Diploma Programs		Certificate Programs	
<i>Hours</i>	<i>QPA</i>	<i>Hours</i>	<i>QPA</i>	<i>Hours</i>	<i>QPA</i>
0-15	1.00	0-20	1.25	0-7	1.50
16-30	1.25	21-40	1.50	8-13	1.75
31-45	1.50	41-60	1.75	14-	2.00
46-60	1.75	61-	2.00		
61-75	1.90				
76-	2.00				

Students enrolled in the Nursing Program please see Nursing Policy and Procedure Manual, PROGRESSION POLICY.

CONDITIONAL STATUS

Because of the difficulty some students experience in satisfactorily meeting institutional academic standards (as shown in the College Catalog and the Student Handbook), conditional status for them may be necessary. The procedure for placing them on conditional status will be as follows:

1. At the end of each quarter the Dean of Student Development or his appointed designee will review the grades of all students registered for that quarter. If the overall quality point average of students is below that prescribed in the Satisfactory Academic Progress scale shown in the College Catalog and the Student Handbook, they will be notified by first-class mail to make an appointment for an interview with the Dean of Student Development or his appointed designee.
2. The academic record of each student will be secured from the Registrar's Office, and will be reviewed by the student and the Dean of Student Development or his appointed designee. The Dean of Student Development or his appointed designee will recommend to the student things that should be done in order for the student to bring his/her quality point average up to satisfactory progress. Included in the recommendations will be referral to other college agencies, such as the MIND lab, the Career Center, etc. Tutoring service and study habits will be addressed. If there are problems facing the student that are other than academic, they will be addressed also.
3. A student may continue to be enrolled at Mitchell Community College unless he/she is dismissed for misconduct, or fails to maintain satisfactory academic progress as defined in the College Catalog or the Student Handbook. Conditions for readmission will be stated in the dismissal directive of each student.



### **CREDIT BY EXAMINATION**

Credit by examination may be allowed for a given course if a regularly enrolled student can demonstrate the required level of proficiency as a result of independent study and experience. This credit will be based on a division examination under the direction of the chairperson of the division in which the course is offered. Credit hours will count toward graduation; they will not be computed in quality point average as grades and quality points will not be recorded. Application for credit by examination must be processed in the Registrar's Office. Tuition must be paid except in cases of full-time students for whom there would be no additional charge. Examinations may be scheduled at the discretion of the division chairperson involved. Not all courses may be challenged, and those appropriate must be determined by the Division Chairperson.

### **ADVANCED PLACEMENT**

Students entering Mitchell Community College from Statesville City Schools, Iredell County Schools, or Mooresville City Schools may be awarded advanced placement credit as provided in an agreement between these school systems and Mitchell Community College.

Advanced placement credit based on high school achievement may be allowed to students enrolling full-time in the Business Department. Details concerning specific requirements are available from counselors at the high schools or at Mitchell Community College.

Students enrolled in the Nursing Programs, please see the Nursing Policy and Procedure Manual.





## **DEVELOPMENTAL STUDIES PROGRAM**

The goal of the Developmental Studies Program is to meet the challenge of the College's "open door" admissions policy, which brings students of varying educational needs and abilities to the campus, and to fulfill the College's purpose "to be of optimum educational and cultural service to the people within its geographical area." The College is committed, through the Developmental Studies Program, to providing ample opportunities for each student to meet his educational needs. The program offers to students course work, Mind Lab opportunities, and counseling designed to both remediate specific academic weaknesses and to develop other skills necessary to success in college. Upon completion of the developmental work prescribed as a result of placement, each student will be better prepared for the demands of his/her chosen curriculum.

## **THE MITCHELL INSTRUCTIONAL AND DEVELOPMENTAL LABORATORY**

The MIND Lab provides assistance in course work to curriculum students. Writing help and tutoring assistance in all course work are the primary services offered. Computers are available to students for composing and printing of papers.

The MIND Lab is open during the day Monday through Friday from 8:00 to 3:00 and during the evening Monday through Thursday from 5:30 to 8:30.

## **AUDITING CLASSES**

Classes may be audited with permission of the instructor if space is available. Priority will be given to regular credit students. Participation in class discussion and examinations is at the option of the instructor. No credit by examination can be allowed for courses that have been audited. A grade of "AU" will be recorded with no hours credit or quality points. Registration or changes in registration for audits must be completed during the regular registration or change periods. Regular fees will be charged.

## **REPEATING COURSE WORK**

A course may be repeated when a permanent passing grade for that course has not been recorded. No course may be counted more than once. Any required course in which an "F" is received must be repeated. A course that is not required may be repeated, but can be counted only once toward graduation. In those cases where a course in which the student received an "F" is not offered during the remainder of that student's residence, an equivalent course may be substituted upon recommendation of the division chairperson, or program director and the appropriate dean for purposes of meeting program requirements. Any exceptions to the above must be approved by the Dean of Student Development.

## TRANSCRIPTS

An official transcript of work at Mitchell Community College will be sent to the appropriate institution upon written request by the student. For each transcript there is a charge of \$1.00. No transcript will be released until the student's account is cleared with the Business Office and the Library.

## REQUIREMENTS FOR GRADUATION

The following requirements apply to programs; however, some divisions may have additional requirements applicable only to that division.

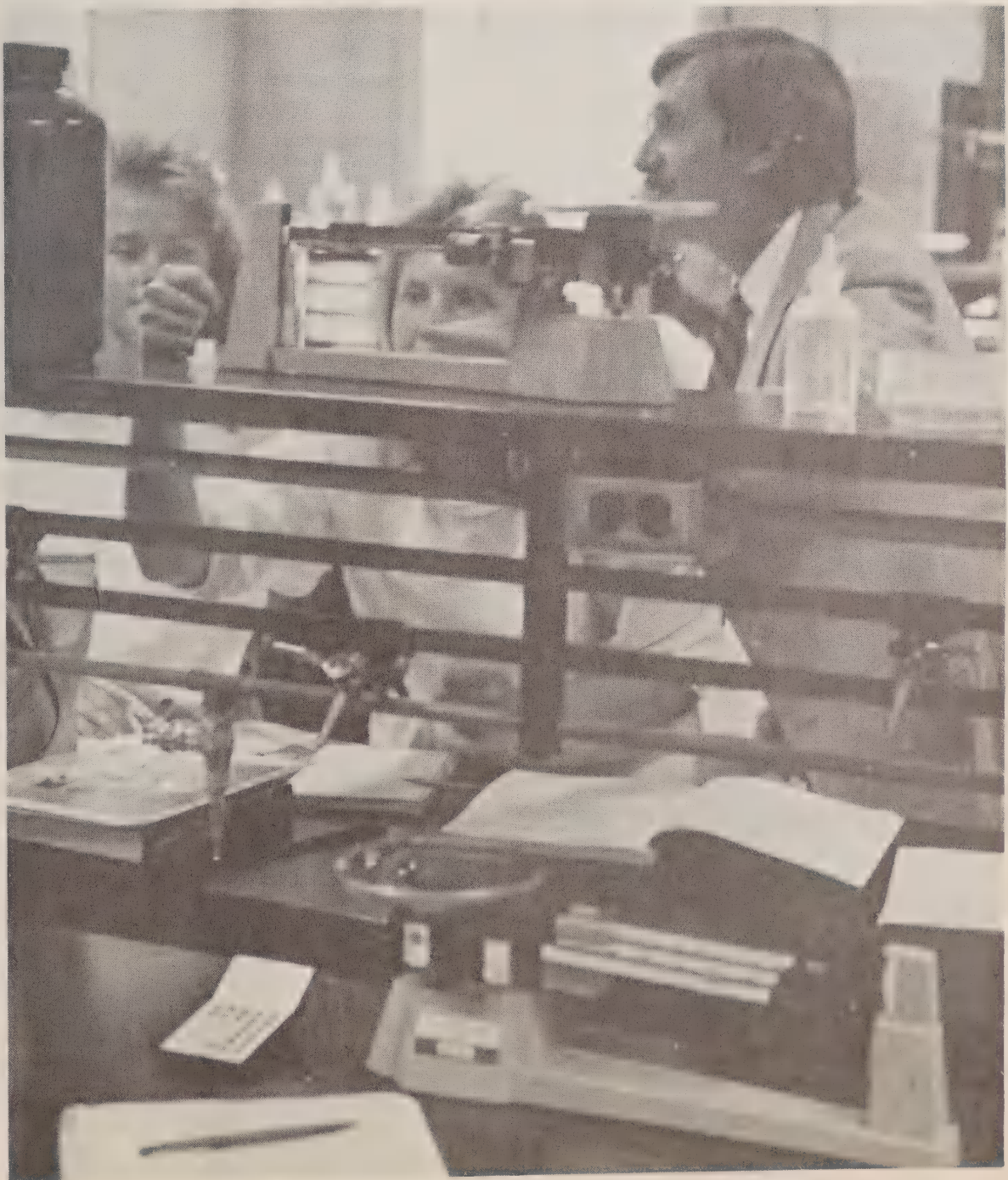
1. Students in the programs awarding diplomas are required to reach a reading proficiency level. Students in programs awarding the Associate in Arts, Associate in Fine Arts, Associate in Science, or Associate in Applied Science degrees are required to make satisfactory scores on the reading placement test, or successfully complete reading requirements.
2. A student may graduate under the Catalog in which he entered, or may elect to graduate under any catalog issued after entry into the College and prior to graduation provided he/she was enrolled in the College during the time when the catalog was in effect. Along with the appropriate number of hours earned and the completion of all required courses for his specific program, a student must have a 2.00 quality point average in order to graduate and receive a degree, diploma, or certificate. No graduation requirements may be waived without recommendation from the program director, division chairman, and administrative approval.
3. Application for graduation and payment of graduation fees must be made during the registration period for the student's last quarter.
4. Presence at graduation is a requirement. When attendance is impossible, the student may petition, in writing, the Dean of Student Development for permission to graduate in absentia. Such petition must be made at least thirty days before commencement exercises.
5. A minimum of thirty quarter hours credit in the student's program of study must be earned at Mitchell Community College in order to be eligible for graduation, except in the nursing program.
6. In the Associate Degree Nursing program a minimum of 43 credit hours in nursing courses must be earned at Mitchell Community College.
7. A maximum of eleven quarter hours credit may be earned at another institution and accepted for graduation purposes after a student transfers from Mitchell Community College.
8. In addition to the above school requirements, an exit interview with the nursing faculty is required. This is a compilation of the rating of the student by all clinical instructors who have supervised that student. The exit interview will be included as part of all future employment references.



## WITHDRAWALS

Students withdrawing from the college must contact the Office of the Dean of Student Development for the appropriate forms and procedures for official withdrawal. A student who fails to withdraw officially will receive an "F" on each course for which he was registered. A clearance slip will be presented to the student in order to assure that each appropriate office is officially notified. The Dean of Student Development will sign all official withdrawals.

Students who need or want to withdraw from a class must initiate an official drop in the Registrar's office. This must be done prior to the last class of the sixth week of the quarter, except during summer sessions, but exact dates are given for these. A grade of "F" will be assigned for those classes if the official withdrawal is not made.



## Educational Programs

Mitchell Community College offers a wide range of planned educational programs. The programs may range in length from four quarters to seven quarters. Formal recognition for successful completion of a program will vary depending on the nature of the curriculum. Mitchell Community College recognizes successful academic completion as:

### *College Transfer:*

Associate in Arts Degree — minimum 96 quarter hours credit

Associate in Fine Arts Degree — minimum 96 quarter hours credit with 36 hrs. in Fine Arts

Associate in Science Degree — minimum 96 quarter hours credit

#### College Transfer Programs:

Pre-Art	—C-003
Pre-Business Administration	—C-004
Pre-Liberal Arts	—C-011
Pre-Science	—C-018
Special Credit	—C-301

### *Technical:*

Associate in Applied Science Degree — minimum 108 quarter hours credit; Certificate — minimum 16 quarter hours credit.

#### Technical Programs:

Accounting	—T-016
Associate Degree Nursing	—T-059
Business Administration	—T-018
Business Computer Programming	—T-022
Criminal Justice	—T-129
Electronics Engineering Technology	—T-045
Administrative Office Technology	—T-030
General Office Technology	—T-033
Industrial Management	—T-049
Structural Clay Products Technology	—T-206
Basic Law Enforcement Training	—T-189
Special Credit	—T-301

### *Vocational:*

Diploma — minimum 64 quarter hours credit.

Certificate — minimum 16 quarter hours credit.

#### Vocational Programs:

Air Conditioning Heating & Refrigeration	—V-024
Automotive Mechanics	—V-003
Cosmetology	—V-009
Drafting-Mechanical	—V-017
Electrical Installation & Maintenance	—V-018
Industrial Electronic	—V-045
Industrial Maintenance	—V-028
Welding	—V-050
Special Credit	—V-301



## READING REQUIREMENTS FOR ALL PROGRAMS

The following requirements must be successfully met by students in all programs:

*Associate in Arts, Associate in Fine Arts, Associate in Science —*

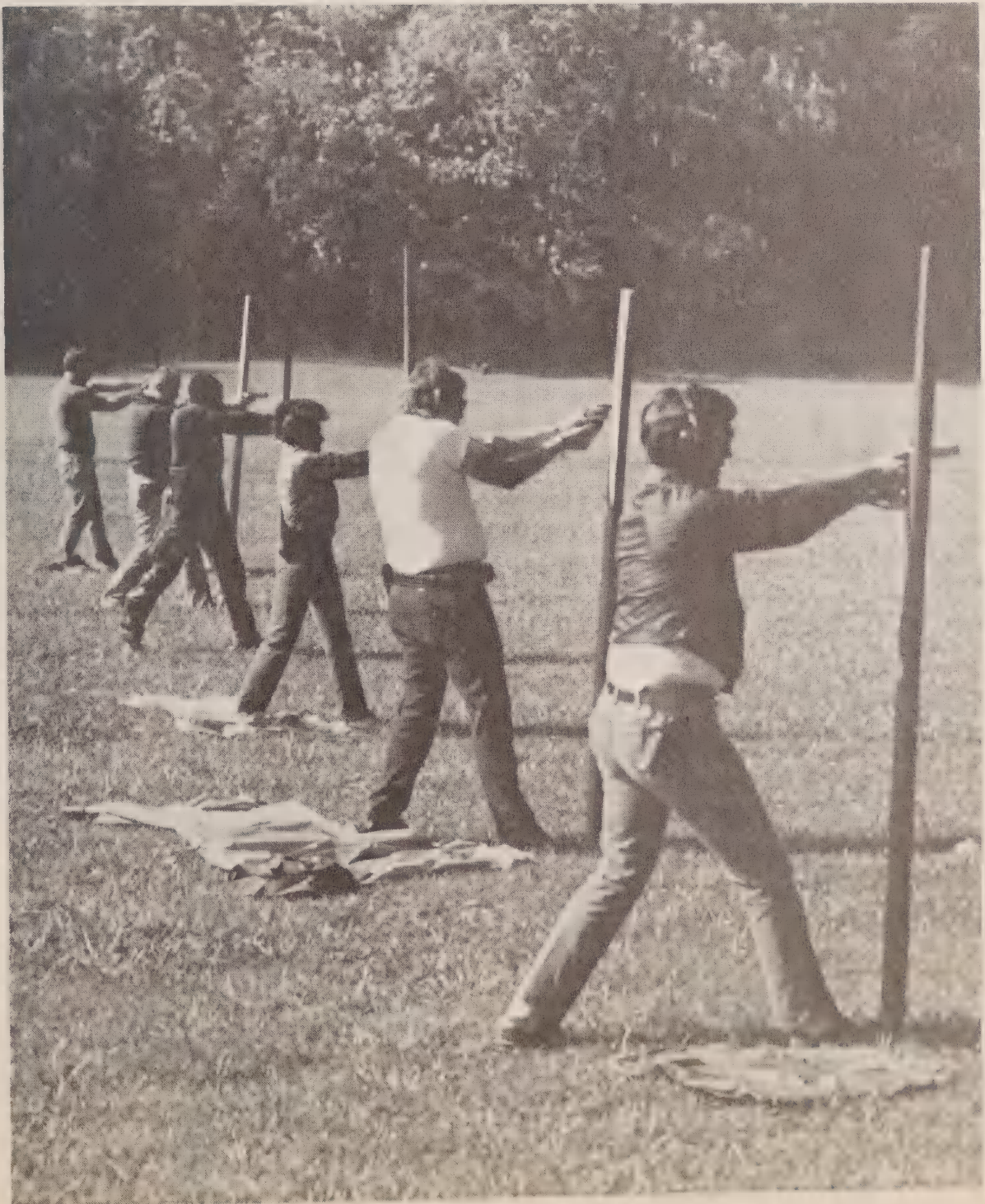
Must make satisfactory score on the reading test, or take Reading 092 and 094, or take 094.

*Associate in Applied Science —*

Must make a satisfactory score on the reading test, or take Reading 092 and 094, or take 094.

*Diploma Programs —*

Must take Reading 1101, or receive credit by examination.



COLLEGE TRANSFER PROGRAMS

College transfer curricula are designed for students who intend to transfer to a senior institution to pursue a baccalaureate degree. Flexible by design, the courses can be selected to meet the general education requirements of most colleges and universities. Students in these curricula are encouraged to examine the requirements of the senior institution to which they plan to transfer for completion of their four-year degree. Counselors and advisors are available to assist students in designing their programs.

The minimum requirement for Associate in Arts, Associate in Science, and Associate in Fine Arts degrees is 96 quarter hours as specified below, with an overall grade point average of 2.00 or higher.

ASSOCIATE IN ARTS DEGREE

Communications .....	9 credit hours
ENG 151, 152, 153 required.	
Physical Education .....	3 credit hours
Humanities and Fine Arts .....	14 credit hours
Courses must be selected from art, modern language, literature, music, philosophy, religion, and speech but must include at least 5 credit hours in literature.	
Mathematics .....	5 credit hours
MAT 161 or higher level course required.	
Science .....	12 credit hours
Introductory science sequence required.	
Social Science .....	15 credit hours
Western Civilization or American History sequence required.	
Electives .....	38 credit hours
Students should select electives which correspond with their major and the institution to which they wish to transfer.	

ASSOCIATE IN SCIENCE DEGREE

Communications .....	9 credit hours
ENG 151, 152, 153 required.	
Physical Education .....	3 credit hours
Humanities and Fine Arts .....	8 credit hours
Courses must be selected from art, modern language, literature, music, philosophy, religion and speech but must include at least 5 credit hours in literature.	
Mathematics .....	20 credit hours
Completion of MAT 253 required.	
Science .....	24 credit hours
Two complete three-course sequences required.	
Social Science .....	10 credit hours
Western Civilization or American History sequence required.	
Electives .....	22 credit hours
Students should select electives which correspond with their major and the institution to which they wish to transfer.	



ASSOCIATE IN FINE ARTS DEGREE

Communications	9 credit hours
ENG 151, 152, 153 required.	
Humanities and Fine Arts	12 credit hours
Courses must be selected from literature, modern language, religion, music, philosophy, and speech but must include 5 credit hours in literature.	
Mathematics	5 credit hours
MAT 161 or higher level course required.	
Science	12 credit hours
Introductory science sequence required.	
Social Science	10 credit hours
Western Civilization or American History sequence required.	
Physical Education	3 credit hours
Electives	5 credit hours
Liberal arts area and/or areas related to major	
Professional Program Courses	40 credit hours

PRE-LIBERAL ARTS (C-011)  
(Suggested Curriculum)

Associate in Arts Degree

			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
			<i>Credit</i>				<i>Credit</i>
<i>Course Title</i>				<i>Course Title</i>			
<b>FIRST QUARTER</b>				<b>FOURTH QUARTER</b>			
ENG	151	Composition I	3	ENG	Literature		5
MAT	161	College Algebra	5		Electives		11
BIO	151	General Biology or					
CHM	161	General Chemistry or					
PHY	271	General Physics	4				
PED		Physical Education	1				
		Elective	3				
<b>SECOND QUARTER</b>				<b>FIFTH QUARTER</b>			
ENG	152	Composition II	3		Humanities and		
BIO	152	General Biology or			Fine Arts		5
CHM	162	General Chemistry or			Social Science Elective		5
PHY	272	General Physics	4		Electives		6
HIS	151	History of Western					
		Civilization or					
HIS	251	American History	5				
PED		Physical Education	1				
		Elective	3				
<b>THIRD QUARTER</b>				<b>SIXTH QUARTER</b>			
ENG	153	Composition III	3		Humanities and		
BIO	153	General Biology or			Fine Arts		4
CHM	163	General Chemistry or			Electives		12
PHY	273	General Physics	4				
HIS	152	History of Western					
		Civilization or					
HIS	252	American History	5				
PED		Physical Education	1				
		Elective	3				

**PRE-BUSINESS ADMINISTRATION (C-004)**

(Suggested Curriculum)

Associate in Arts Degree

			<i>Qtr.</i>	<i>Hrs.</i>				<i>Qtr.</i>	<i>Hrs.</i>
				<i>Credit</i>					<i>Credit</i>
			<i>Course Title</i>					<i>Course Title</i>	
<b>FIRST QUARTER</b>					<b>FOURTH QUARTER</b>				
ENG	151	Composition I	3		BUS	161	Accounting Principles	4	
HIS	151	History of Western Civilization or			ECO	251	Macroeconomics	5	
HIS	251	U.S. History	5		MAT	161	College Algebra	5	
BIO	151	General Biology or					Literature	5	
CHM	161	General Chemistry or							
PHY	271	General Physics	4						
PED		Physical Education	1						
		Elective	3						
<b>SECOND QUARTER</b>					<b>FIFTH QUARTER</b>				
ENG	152	Composition II	3		BUS	162	Accounting Principles	4	
HIS	152	History of Western Civilization or			ECO	252	Microeconomics	5	
HIS	252	U.S. History	5		MAT	191	Concepts & Techniques of Calculus	5	
BIO	152	General Biology or			PED		Physical Education	1	
CHM	162	General Chemistry or							
PHY	272	General Physics	4						
PED		Physical Education	1						
		Elective	3						
<b>THIRD QUARTER</b>					<b>SIXTH QUARTER</b>				
ENG	153	Composition III	3		BUS	163	Accounting Principles	4	
BIO	163	General Biology or			MAT	171	Introductory Statistics	5	
CHM	163	General Chemistry or					Humanities and		
PHY	273	General Physics	4				Fine Arts	6	
EDP	151	Introduction to Data Processing	5						
PED		Physical Education	1						
		Humanities and Fine Arts	3						

**PRE-SCIENCE (C-018)**

(Suggested Curriculum)

Associate in Science Degree

			<i>Qtr.</i>	<i>Hrs.</i>				<i>Qtr.</i>	<i>Hrs.</i>
				<i>Credit</i>					<i>Credit</i>
			<i>Course Title</i>					<i>Course Title</i>	
<b>FIRST QUARTER</b>					<b>FOURTH QUARTER</b>				
ENG	151	Composition I	3		MAT	252	Calculus I	5	
HIS	151	History of Western Civilization or			BIO	151	General Biology or		
HIS	251	U.S. History	5		CHM	161	General Chemistry or		
BIO	151	General Biology or			PHY	271	General Physics	4	
CHM	161	General Chemistry or			ENG		Literature	5	
PHY	271	General Physics	4		PED		Physical Education	1	
PED		Physical Education	1						
		Elective	3						



**SECOND QUARTER**

ENG	152	Composition II	3
HIS	152	History of Western Civilization III or	
HIS	252	U.S. History II	5
BIO	152	General Biology or	
CHM	162	General Chemistry or	
PHY	272	General Physics	4
PED		Physical Education	1
		Elective	3

**THIRD QUARTER**

ENG	153	Composition III	3
MAT	171	Introductory Statistics	5
BIO	153	General Biology or	
CHM	163	General Chemistry or	
PHY	272	General Physics	4
		Elective	4

**FIFTH QUARTER**

MAT	252	Calculus II	5
BIO	152	General Biology or	
CHM	162	General Chemistry or	
PHY	272	General Physics	4
		Humanities and	
		Fine Arts	3
		Elective	4

**SIXTH QUARTER**

MAT	253	Calculus III	5
BIO	153	General Biology or	
CHM	163	General Chemistry or	
PHY	273	General Physics	4
		Elective	8

**PRE-ART (C-003)**

(Suggested Curriculum)

## Associate in Fine Arts Degree

			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>FOURTH QUARTER</b>			
ENG	151	Composition	3	BIO	151	General Biology or	
HIS	151	History of Western Civilization or		CHM	161	General Chemistry or	
HIS	251	U.S. History	5	PHY	271	General Physics	4
ART	150	Basic Design	3	ENG		Literature	5
PED		Physical Education	1	ART		Major Sequence I	3
		Humanities and		ART		Minor Sequence I	3
		Fine Arts	3	PED		Physical Education	1
<b>SECOND QUARTER</b>				<b>FIFTH QUARTER</b>			
ENG	152	Composition II	3	BIO	152	General Biology or	
HIS	152	History of Western Civilization or		CHM	162	General Chemistry or	
HIS	251	U.S. History	3	PHY	272	General Physics	4
ART	151	Drawing I	1	ART		Art History	5
		Elective	6	ART		Major Sequence II	3
				ART		Minor Sequence II	3
<b>THIRD QUARTER</b>				<b>SIXTH QUARTER</b>			
ENG	153	Composition III	3	BIO	153	General Biology or	
MAT	161	College Algebra	5	CHM	163	General Chemistry or	
PED		Physical Education	1	PHY	273	General Physics	4
ART	152	Drawing II or		ART		Art History	5
		Art Elective	3	ART		Major Sequence III	3
		Humanities and		ART		Art Elective	5
		Fine Arts	4				

### **SPECIAL CREDIT (C-301, T-301, V-301)**

These programs are designed for those students who have no desire to work toward a degree, diploma, or certificate but want to take courses. As soon as a student decides to work toward a degree, diploma, or certificate he/she should notify the college so that he/she can be properly advised of requirements, and what he/she must do to meet those requirements.





## TECHNICAL PROGRAMS

Technical curriculums are designed to prepare individuals for employment in fields recognized as semiprofessional or paraprofessional in status. They are comprised of collegiate-level studies (not necessarily transferable) providing a greater degree of theoretical knowledge than manipulative skills and are oriented to a broad occupational cluster. Programs involve the application of scientific principles in research, design, development, production, distribution, or service. Programs consist of a sequence of courses which generally can be completed in two years by a full-time student.

The Associate in Applied Science (A.A.S.) degree is awarded to the graduate of a technical curriculum. Such programs require from 96 to 128 quarter hour credits. The certificate is awarded to the graduate of a technical specialty curriculum, which must include at least 16 quarter hours credits.

An overall grade point average of 2.00 or higher is required for all degrees and certificates.

### ADMINISTRATIVE OFFICE TECHNOLOGY (T-030)

#### Associate in Applied Science Degree

This curriculum prepares individuals to perform secretarial and administrative support duties in a variety of offices including those offices with computerized, automated functions.

Students in this curriculum study keyboarding and word/information processing to develop skills in the preparation of business correspondence, reports, statistical copy, manuscripts and business forms. Administrative support courses emphasize typical office tasks such as scheduling appointments, composing correspondence and performing reprographic duties. Training is also provided in analyzing and coordinating office duties and systems. Skills and knowledge are taught in the areas of electronic document storage and retrieval and computer software utilization.

Graduates of the program may be employed in offices in private business establishments involved in retailing, marketing, advertising, and manufacturing as well as offices in local, state, and federal government.

### CURRICULUM

Technical/Vocational (Major)	58
Related	34
General Education	20
Electives	<u>0</u>
	112

Major Requirements:

BUS	153,	154, 155, 201, 202,	
		203 Typewriting	18
BUS	156,	157, 158, 211, 212,	
		213 Shorthand	24
BUS	125,	126 Office Procedures	6
BUS	122	Filing	3
BUS	215,	216 Word Processing	7
General Education Requirements:			
ENG	101,	102, 103 English	9
or ENG 151, 152, 153			
SPH	251	Public Speaking	3
ECO	251	Economics	5
*General Education Electives			
			3

Related Requirements:

BUS	120	Machine Calculation	4
MAT	120	General Mathematics	5
BUS	136	Professional Development	3
BUS	150,	151 Business Law	6
BUS	161,	162 Accounting	8
BUS	220	Business Communications	3
EDP	151	Intro. to Data Processing	5

\*General Education Electives must come from the areas of English, Social Studies, or Humanities.



ACCOUNTING (T-016)

ASSOCIATE IN APPLIED SCIENCE DEGREE

The purpose of the Accounting curriculum is to prepare the individual to enter the accounting profession through study of accounting principles, theories and practices with related study in law, finance, management and data processing operations.

The curriculum is designed to prepare the individual for entry-level accounting positions, such as junior accountant, bookkeeper, accounting clerk, cost clerk, payroll clerk and related data processing occupations.

With experience and additional education, the individual will be able to advance to positions such as systems accountant, cost accountant, budget accountant and property accountant.

CURRICULUM

Technical/Vocational (Major)	59
Related	33
General Education	33
Electives [(3 if BUS 153 waived	19
for skills (30 WPM)]	<u>0</u>
	111

Major Requirements:				Related Requirements:			
BUS	161, 162, 163	Accounting Prin.	12	BUS	220,	Business Communications	3
BUS	241, 242, 243	Intermediate Acc.	12	BUS	152	Introduction to Business	5
BUS	244	Cost Accounting	4	BUS	150, 151	Business Law	6
BUS	246	Taxes	4	EDP	151	Introduction to Data Proc.	5
BUS	248	Auditing	4	SPH	251	Public Speaking	3
BUS	228	Consumer Finance	3			Related Elective	8
BUS	229	Business Finance	3	BUS	136	Professional Development	3
BUS	224	Business Management	5	General Education Requirements:			
BUS	120	Machine Calculations	4	ENG	101, 102, 103	English	9
BUS	153	Typewriting	3	or ENG 151, 152, 153			
MAT	120	General Mathematics	5	ECO	251 252	Economics	10
				Elective Requirement:			
				(3 if Bus 153 waived for 30 WPM)			
				Approved Related Electives:			
				BUS	216, 223, 238, 134, 200, 225		
				EDP	158, 159, 160		

			<i>Qtr. Hrs.</i>					<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>		<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>					<b>FOURTH QUARTER</b>			
ENG	101	Grammar I	3		BUS	241	Intermediate Accounting	4
BUS	152	Intro. to Business	5		BUS	244	Cost Accounting	4
BUS	161	Accounting Principles	4		BUS	228	Consumer Finance	3
BUS	150	Business Law	3		BUS	224	Business Management	5
MAT	120	General Mathematics	5					
<b>SECOND QUARTER</b>					<b>FIFTH QUARTER</b>			
ENG	102	Composition	3		BUS	242	Intermediate Accounting	4
BUS	151	Business Law	3		BUS	248	Auditing	4
BUS	120	Machine Calculations	4		BUS	136	Professional Development	3
BUS	162	Accounting Principles	4		EDP	151	Intro. to Data Processing	5
ECO	251	Macroeconomics	5		BUS	229	Business Finance	3
<b>THIRD QUARTER</b>					<b>SIXTH QUARTER</b>			
ENG	103	Technical Writing	3		BUS	243	Intermediate Accounting	4
BUS	163	Accounting Principles	4		BUS	246	Taxes	4
ECO	252	Microeconomics	5		SPH	251	Public Speaking	3
BUS	153	Typewriting (Waived for 30 wpm)	3		BUS	220	Business Communications	3
		Elective Related	4				Elective Related	4

**ASSOCIATE DEGREE NURSING (T-059)**

**ASSOCIATE IN APPLIED SCIENCE DEGREE**

The Associate Degree Nursing curriculum is designed to prepare graduates to integrate the principles and theories of nursing and the sciences in utilizing the nursing process in the practice of nursing. The practice of nursing by associate degree nursing graduates consists of: (1) assessing the patient's physical and mental health, including the patient's reaction to illness and treatment regimens; (2) recording and reporting the results of the nursing assessment; (3) planning, initiating, delivering, and evaluating appropriate nursing acts; (4) teaching, delegating to or supervising other personnel in implementing the treatment regimen; (5) collaborating with other health care providers in determining the appropriate health care for a patient; (6) implementing the treatment and pharmaceutical regimen prescribed by any person authorized by State law to prescribe such a regimen; (7) providing teaching and counseling about the patient's health care; (8) reporting and recording the plan for care, nursing care given, and the patient's response to that care; and (9) supervising, teaching, and evaluating those who perform or are preparing to perform nursing functions.

Graduates are eligible to take the National Council Licensure Examination (NCLEX-RN) which is required for practice as a registered nurse.

Individuals desiring a career in registered nursing should take biology, algebra and chemistry courses prior to entering the program.



## Major Requirements:

NUR	101	Fundamentals of Nursing	8
NUR	111	Medical/Surgical Nursing I	12
NUR	112	Medical/Surgical Nursing II	10
NUR	113	Medical/Surgical Nursing III	10
NUR	212	Pediatrics	10
NUR	213	Obstetrical Nursing	10
NUR	214	Psychiatric Nursing	7
NUR	215	Leadership and Trends	<u>6</u>
			73

## Related Requirements:

BIO	251	Anatomy and Physiology I	4
BIO	252	Anatomy and Physiology II	4
BIO	253	Anatomy and Physiology III	4
BIO	255	Microbiology	5
NUT	151	Nutrition and Diet Therapy	3
PSY	262	Human Growth and Development	5
PSY	264	Abnormal Psychology	<u>5</u>
			30

## General Education Requirements:

ENG	151	English Composition I	3
ENG	152	English Composition II	3
		Elective	3
PSY	151	Introduction to Psychology	5
SOC	151	Introduction to Sociology	<u>5</u>
			19

		<i>Course Title</i>	<i>Qtr. Hrs.</i> <i>Credit</i>
<b>FIRST QUARTER</b>			
PSY	151	Introduction to Psychology	5
ENG	151	English Composition I	3
BIO	251	Anatomy and Physiology I	4
NUR	101	Fundamentals of Nursing	8

**SECOND QUARTER**

NUR	111	Medical/Surgical Nursing I	12
NUT	151	Nutrition and Diet Therapy	3
BIO	252	Anatomy and Physiology II	4

**THIRD QUARTER**

BIO	253	Anatomy and Physiology III	4
NUR	112	Medical/Surgical Nursing II or	
NUR	213	Obstetrical Nursing	10
PSY	262	Human Growth and Development	5

		<i>Course Title</i>	<i>Qtr. Hrs.</i> <i>Credit</i>
<b>FOURTH QUARTER</b>			
BIO	255	Microbiology	5
NUR	112	Medical/Surgical Nursing II <i>or</i>	
NUR	213	Obstetrical Nursing	10

**FIFTH QUARTER**

ENG	152	English Composition II	3
SOC	151	Introduction to Sociology	5
NUR	212	Pediatrics <i>or</i>	
NUR	113	Medical/Surgical Nursing III	10

**SIXTH QUARTER**

		Elective	3
PSY	264	Abnormal Psychology	5
NUR	212	Pediatrics <i>or</i>	
NUR	113	Medical/Surgical Nursing III	10

**SEVENTH QUARTER**

NUR	215	Leadership and Trends	6
NUR	214	Psychiatric Nursing	7

**BUSINESS ADMINISTRATION (T-018)****ASSOCIATE IN APPLIED SCIENCE DEGREE**

The Business Administration curriculum is designed to prepare an individual for entry into middle-management occupations in various businesses and industries. The curriculum provides an overview of the business and industrial world — its organization and management.

The purpose of the curriculum will be fulfilled through courses designed to develop competency in: (1) understanding the principles of organization and management in business operations, (2) utilizing modern techniques to make decisions, (3) understanding the economy through study and analysis of the role of production and marketing, (4) communicating orally and in writing and (5) interpersonal relationships.

Through these skills and through development of personal competencies and qualities, the individual will be able to function effectively in middle-management activities in business or industry.

**CURRICULUM**

Technical/Vocational (Major)	58
Related	33
General Education	19
Electives (6 if BUS 153 waived for 30 WPM)	<u>3</u>
	113

**Major Requirements:**

BUS 120	Machine Calculations	4
BUS 134	Principles of Supervision	3
BUS 150, 151	Business Law	6
BUS 152	Introduction to Business	5
BUS 153	Typewriting	3
BUS 220	Business Communications	3
BUS 223	Principles of Selling	3
BUS 224	Business Management	5
BUS 225	Principles of Marketing	5
BUS 229	Business Finance	3
BUS 238	Business Insurance	5
BUS 246	Taxes	4
EDP 159	IBM Software Applications	4
MAT 120	General Mathematics	5

**Related Requirements:**

BUS 136	Professional Development	3
BUS 161, 162, 163	Accounting Principles	12
EDP 151	Introduction to Data Processing	5
SPH 251	Public Speaking	3
BUS 228	Consumer Finance	3
	Related Electives	7

**Approved Related Electives:**

BUS 125	Office Procedures
BUS 200	Accounting on Microcomputers
BUS 216	Word Processing
EDP 158	Intro. to the IBM PC with BASIC programming
EDP 160	Advanced BASIC Programming



General Education Requirements:

ENG	101, 102, 103	English	9
or ENG 151, 152, 153			
ECO	251, 252	Economics	10
Elective Requirements: (6 if BUS 153 waived 30 WPM)			3

			<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>			
ENG	101	Grammar I	3
BUS	161	Accounting	4
BUS	152	Intro. to Business	5
		Related Elective	4
MAT	120	General Mathematics	5

<b>SECOND QUARTER</b>			
ENG	102	Composition	3
BUS	162	Accounting	4
EDP	151	Intro. to Data	
		Processing	5
BUS	120	Machine Calculations	4
BUS	136	Professional	
		Development	3

<b>THIRD QUARTER</b>			
ENG	103	Technical Writing	3
BUS	163	Accounting	4
BUS	220	Business	
		Communications	3
BUS	153	Typewriting (waived for	
		30 wpm)	3
BUS	134	Principles of	
		Supervision	3

			<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>
<b>FOURTH QUARTER</b>			
ECO	251	Macroeconomics	5
BUS	150	Business Law	3
BUS	224	Business Management	5
BUS	228	Consumer Finance	3
		Related Elective	3

<b>FIFTH QUARTER</b>			
ECO	252	Microeconomics	5
BUS	151	Business Law	3
BUS	225	Principles of Marketing	5
BUS	229	Business Finance	3
SPH	251	Public Speaking	3

<b>SIXTH QUARTER</b>			
BUS	223	Principles of Selling	3
BUS	238	Business Insurance	5
BUS	246	Taxes	4
EDP	159	IBM Software	
		Applications	4
		Elective	3



BUSINESS COMPUTER PROGRAMMING (T-022)

ASSOCIATE IN APPLIED SCIENCE DEGREE

The primary objective of the Business Computer Programming curriculum is to prepare individuals for gainful employment as computer programmers. The objective is fulfilled through study and application in areas such as computer and systems theories and concepts, data processing techniques, business operations, logic, flow charting, programming procedures and languages and types, uses and operation of equipment.

Entry-level jobs as data entry operator, computer programmer and computer programmer trainee are available. With experience and additional education, the individual may enter jobs such as data processing manager, computer programmer manager, systems analyst and systems manager.

CURRICULUM

		<i>Quarter Hours</i>	
Technical/Vocational (Major)		65	
Related		29	
General Education		<u>19</u>	
TOTAL		113	
Major Requirements:			
EDP	151	Introduction to D.P.	5
EDP	103	Utilities	3
EDP	107	RPG II	5
EDP	108	Advanced RPG II	5
EDP	203	Systems Analysis & Design	3
EDP	207	COBOL	5
EDP	208	Advanced COBOL	5
BUS	161, 162, 163,	Accounting	12
BUS	244	Cost Accounting	4
BUS	224	Business Management	5
EDP	210	Final Project	5
EDP	158	Introduction to IBM PC's with Basic	4
EDP	159	IBM Software Applications	4
Related Requirements:			
BUS	152	Introduction to Business	5
BUS	150, 151	Business Law	6
BUS	220	Business Communications	3
BUS	246	Taxes	4
SPH	251	Public Speaking	3
		Related Electives	3
MAT	120	General Mathematics	5
General Education Requirements:			
ENG	101, 102, 103	English	9
	or ENG 151, 152, 153		
ECO	251, 252	Economics	10
Approved Related Electives:			
BUS	120, 125, 134, 136, 153, 200, 216		
EDP	160		
COE	151, 152, 153		



			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>FOURTH QUARTER</b>			
ENG	101	Grammar I	3	BUS	244	Cost Accounting	4
BUS	161	Accounting Principles	4	EDP	207	COBOL	5
EDP	151	Intro. to Data Processing	5	BUS	224	Business Management	5
EDP	158	Intro. to IBM PC's with BASIC	4	BUS	150	Business Law	3
				EDP	203	Systems Analysis and Design	3
<b>SECOND QUARTER</b>				<b>FIFTH QUARTER</b>			
ENG	102	Composition	3	EDP	208	Advanced COBOL	5
BUS	162	Accounting Principles	4	BUS	151	Business Law	3
EDP	107	RPG II	5	ECO	251	Macroeconomics	5
MAT	120	General Mathematics	5	EDP	159	IBM Software Application	4
				SPH	251	Public Speaking	3
<b>THIRD QUARTER</b>				<b>SIXTH QUARTER</b>			
ENG	103	Technical Writing	3	EDP	210	Final Project	5
BUS	163	Accounting Principles	4	BUS	246	Taxes	4
EDP	103	Utilities	3	ECO	252	Microeconomics	5
BUS	152	Intro. to Business	5	BUS	220	Business Communications	3
EDP	108	Advanced RPG II	5			Related Elective	3

**CRIMINAL JUSTICE —  
PROTECTIVE SERVICES TECHNOLOGY (T-129)**  
**ASSOCIATE IN APPLIED SCIENCE DEGREE**

The Criminal Justice Technology curriculum is designed so that it may be a multifaceted program of study. It may consist of study options in corrections or law enforcement.

The Curriculum is designed with a core of courses to afford one the opportunity to acquire basic knowledge, skills and attitudes in the generally accepted subject areas associated with a two-year study of correctional services and law enforcement service. It includes subjects such as interpersonal communications, law, psychology and sociology.

In addition to core subjects, the correctional services option provides an opportunity to study other generally accepted subjects indigenous to a two-year correctional services program such as confinement facility rehabilitation options. Similarly, the law enforcement option provides a year law enforcement services program such as criminal behavior, criminal investigation, patrol operation, traffic management, and other aspects of law enforcement administration and operations.

Job opportunities are available with federal, state, county and municipal governments. In addition, knowledge, skills and attitudes acquired in this course of study qualifies one for job opportunities with private enterprises in such areas as industrial, retail and private security.

**CURRICULUM**

<i>Corrections Option</i>		<i>Law Enforcement Option</i>	
Technical/Vocational (Major)	65	Technical/Vocational (Major)	65
Related	29	Related	28
General Education	22	General Education	20
Electives	<u>0</u>	Electives	<u>0</u>
	116		113



CORRECTIONS OPTION

Major Requirements:				Related Requirements:			
CJC	101	Introduction to Criminal Justice	5	MAT	120	General Mathematics	
						or	
CJC	102	Criminology	5	MAT	151	Fundamentals of Mathematics	5
CJC	110	Juvenile Delinquency	5				
CJC	115	Criminal Law	3	POL	251	American National Government	5
CJC	125	Criminal Procedure	5				
CJC	201	NC Juvenile Detention and Correction	3	POL	261	State & Local Government	5
CJC	203	Corrections	3	HEA	251	First Aid	3
CJC	204	Paroles, Probation & Pardon	3	PSY	264	Abnormal Psychology	5
				PSY	203	Adolescent Psychology	3
CJC	205	Criminal Evidence	5	SOC	271	Social Problems	3
CJC	206	Community Relations	3				
CJC	207	Confinement Facility Administration	3	General Education:			
				SOC	151	Introduction to Sociology	5
CJC	209	Correction Law	3				
CJC	216	Advanced Criminal Law	3	ENG	101	Grammar I	3
				ENG	102	Composition	3
CJC	221	Correction Administration	3	ENG	103	Technical Writing	3
				SPH	251	Public Speaking	3
CJC	223	Correction Counseling	4	PSY	151	Introduction to Psychology	5
CJC	224	Rehabilitation	3				
CJC	230	Counseling	3				
CJC	234	Community-Based Correction	3				

LAW ENFORCEMENT OPTION

Major Requirements:				Related Requirements:			
CJC	101	Intro. to Criminal Justice	5	MAT	120	General Mathematics	
						or	
CJC	102	Criminology	5	MAT	151	Fundamentals of Mathematics	5
CJC	110	Juvenile Delinquency	5				
CJC	115	Criminal Law	3	POL	251	American National Government	5
CJC	125	Criminal Procedure	5				
CJC	202	Traffic Enforcement	5	POL	261	State & Local Government	5
CJC	203	Corrections	3				
CJC	205	Criminal Evidence	5	HEA	251	First Aid	3
CJC	206	Community Relations	3	PSY	264	Abnormal Psychology	5
CJC	210	Criminal Investigation	5	EDP	151	Intro. to Data Processing	5
CJC	211	Criminalistics I	5				
CJC	212	Criminalistics II	5				
CJC	216	Advanced Criminal Law	3	GENERAL EDUCATION REQUIREMENTS:			
				ENG	101	Grammar I	3
CJC	217	Patrol Administration	3	ENG	102	Composition	3
CJC	220	Police Organization Administration	5	ENG	103	Technical Writing	3
				SOC	271	Social Problems	3
				SPH	251	Public Speaking	3
				PSY	151	Intro. to Psychology	5

<i>Course Title</i>			<i>Qtr. Hrs.</i>	<i>Course Title</i>			<i>Qtr. Hrs.</i>
			<i>Credit</i>				<i>Credit</i>
<b>FIRST QUARTER</b>				<b>THIRD QUARTER</b>			
ENG	101	Grammar I	3	POL	261	State/Local Government	5
MAT	120	General Mathematics		CJC	125	Criminal Procedure	5
		or		CJC	110	Juvenile Delinquency	5
MAT	151	Fundamentals of Math	5	ENG	103	Technical Writing	3
PSY	151	Intro. to Psychology	5				
CJC	101	Intro. to Criminal					
		Justice	5				
SPH	251	Public Speaking	3				
<b>SECOND QUARTER</b>							
ENG	102	Composition	3				
POL	251	American National					
		Government	5				
CJC	102	Criminology	5				
CJC	115	Criminal Law	3				
HEA	251	First Aid	3				

LAW ENFORCEMENT

<b>FOURTH QUARTER</b>				<b>SIXTH QUARTER</b>			
CJC	205	Criminal Evidence	5	CJC	202	Traffic Enforcement	5
CJC	206	Community Relations	3	CJC	212	Criminalistics II	5
CJC	216	Advanced Criminal Law	3	CJC	220	Police Organization &	
CJC	210	Criminal Investigation	5			Administration	5
<b>FIFTH QUARTER</b>				EDP	151	Intro. to Data	
CJC	211	Criminalistics I	5			Processing	5
EJC	217	Patrol Administration	3				
CJC	203	Corrections	3				
SOC	271	Social Problems	3				
PSY	264	Abnormal Psychology	5				

CORRECTIONS OPTION

<b>FOURTH QUARTER</b>				<b>SIXTH QUARTER</b>			
CJC	205	Criminal Evidence	5	CJC	223	Correction Counseling	4
PSY	203	Adolescent Psychology	3	CJC	204	Paroles, Probation &	
CJC	216	Advanced Criminal Law	3			Pardons	3
CJC	206	Community Relations	3	CJC	201	N.C. Juvenile Detention	
SOC	151	Intro. to Sociology	5			and Corrections	3
<b>FIFTH QUARTER</b>				CJC	207	Confinement Facility	
CJC	203	Corrections	3			Administration	3
PSY	264	Abnormal Psychology	5	CJC	209	Correction Law	3
CJC	230	Counseling	3	CJC	224	Rehabilitation	3
CJC	234	Community-Based					
		Corrections	3				
CJC	221	Correction					
		Administration	3				
SOC	271	Social Problems	3				



ELECTRONICS ENGINEERING TECHNOLOGY (T-045)

ASSOCIATE IN APPLIED SCIENCE DEGREE

The Electronics curriculum provides a basic background in electronic related theory, with practical applications of electronics for business and industry. Courses are designed to develop competent electronics technicians who may work as assistants to engineers or as liaisons between engineers and skilled craftspersons.

The electronics technician will start in one or more of the following areas: research, design, development, production, maintenance or sales. The graduate may begin as an electronics technician, an engineering aide, laboratory technician, supervisor or equipment specialist.

CURRICULUM

Technical/Vocational (Major)	74
Related	31
General Education	<u>21</u>
	126

Major Requirements:			Related Requirements:		
ELC 112	Electrical Fundamentals I	6	MAT 151	Fundamentals of Math	5
ELC 113	Electrical Fundamentals II	6	MAT 161	College Algebra	5
ELN 121	Electronics I	5	MAT 162	Trigonometry	5
ELN 122	Electronics II	7	DFT 113	Electronic Drafting	4
ELN 123	Electronics III	6	PHY 271	General Physics I	4
ELN 202	Electronic Communications Systems	7	PHY 272	General Physics II	4
ELN 219	Digital Fundamentals	5	PHY 273	General Physics III	4
ELN 208	Industrial Electronics	6	General Education Requirements:		
ELC 222	Solid State Controls	4	ENG 101	Grammar I	3
ELN 203	Microprocessors	7	ENG 102	Composition	3
ELN 220	Electronic Systems	6	ENG 103	Technical Writing	3
ELN 229	Digital Circuits	6	SPH 251	Public Speaking	3
ELN 246	Electronics Design Project	3		Social Science Elective	6
				Elective	3

			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>FIFTH QUARTER</b>			
ENG	101	Grammar I	3	SPH	251	Public Speaking	3
MAT	151	Fundamentals of Math	5	PHY	271	General Physics I	4
ELC	112	Electrical		ELN	123	Electronics III	6
		Fundamentals I	6	ELN	220	Electronic Systems	6
ELN	219	Digital Fundamentals	5				
<b>SECOND QUARTER</b>				<b>SIXTH QUARTER</b>			
ENG	102	Composition	3			Social Science Elective	3
MAT	161	College Algebra	5	PHY	272	General Physics II	4
ELC	113	Electrical		ELC	229	Digital Circuits	6
		Fundamentals II	6	DFT	113	Electronic Drafting	4
ELN	121	Electronics I	5				
<b>THIRD QUARTER</b>				<b>SEVENTH QUARTER</b>			
ENG	103	Technical Writing	3			Social Science Elective	3
MAT	162	Trigonometry	5	PHY	273	General Physics III	4
ELN	122	Electronics II	7	ELN	246	Electronic Design	
ELN	203	Microprocessors	7			Project	3
				ELC	222	Solid State Controls	4
						Elective	3
<b>FOURTH QUARTER—SUMMER QUARTER*</b>							
ELN	202	Electronic					
		Communications	7				
ELN	208	Industrial Electronics	6				





GENERAL OFFICE TECHNOLOGY (T-033)

ASSOCIATE IN APPLIED SCIENCE DEGREE

The purposes of the General Office curriculum are to: (1) prepare the individual to enter clerical-office occupations, (2) provide an educational program for individuals wanting education for upgrading (moving from one position to another) or retraining (moving from present position to a clerical position), and (3) provide an opportunity for individuals wanting to fulfill professional or general interest needs.

These purposes will be fulfilled through skill development in the areas of typewriting, filing and business machines. Through these skills and through development of personal competencies and qualities, the individual will be able to function effectively in office-related activities.

Technical/Vocational (Major)	53
Related	31
General Education	22
Electives	<u>3</u>
	109

Major Requirements:

BUS	120	Machine Calculations	4
BUS	122	Filing	3
BUS	125,	126 Office	
		Procedures	6
BUS	134	Principles of	
		Supervision	3
BUS	153,	154, 155, 201, 202,	
		203 Typewriting	18
BUS	215,	216 Word Processing	7
BUS	220	Business	
		Communications	3
EDP	159	IBM Software	
		Applications	4
MAT	120	General Mathematics	5

Related Requirements:

EDP	151	Introduction to Data	
		Processing	5
BUS	136	Professional	
		Development	3
BUS	150,	151 Business Law	6
BUS	152	Introduction to	
		Business	5
BUS	161,	162 Accounting	8
BUS	246	Taxes	4
General Education Requirements:			
ENG	101, 102, 103	English	9
	or ENG 151, 152, 153		
SPH	251	Public Speaking	3
ECO	251, 252	Economics	10

Elective Requirements:	3
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			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>FOURTH QUARTER</b>			
ENG	101	Grammar I	3	BUS	201	Typewriting	3
BUS	153	Typewriting	3	BUS	161	Accounting Principles	4
BUS	122	Filing	3	BUS	150	Business Law	3
		Elective	3	BUS	152	Intro. to Business	5
MAT	120	General Mathematics	5	ECO	251	Macroeconomics	5
<b>SECOND QUARTER</b>				<b>FIFTH QUARTER</b>			
ENG	102	Composition	3	BUS	202	Typewriting	3
BUS	154	Typewriting	3	ECO	252	Microeconomics	5
BUS	125	Office Procedures	3	BUS	151	Business Law	3
BUS	120	Machine Calculations	4	BUS	162	Accounting Principles	4
EDP	151	Intro. to Data Processing	5	BUS	215	Word Processing	4
<b>THIRD QUARTER</b>				<b>SIXTH QUARTER</b>			
ENG	103	Technical Writing	3	BUS	203	Typewriting	3
BUS	155	Typewriting	3	BUS	220	Business Communications	3
BUS	136	Professional Development	3	BUS	246	Taxes	4
BUS	126	Office Procedures	3	BUS	216	Word Processing	3
SPH	251	Public Speaking	3	EDP	159	IBM Software Application	4
BUS	134	Principles of Supervision	3				





INDUSTRIAL MANAGEMENT (T-049)

ASSOCIATE IN APPLIED SCIENCE DEGREE

The Industrial Management curriculum is designed to provide an individual with the ability to function effectively in supervisory and middle-management positions in industry. This program emphasizes study and application in areas such as business and industrial management, production methods and schedules, inventory control, work analysis, motivation techniques and human relations.

This curriculum is designed to prepare the individual to enter supervisory or middle-management positions, to provide an educational program for upgrading or retraining, and to provide an opportunity for the individual wanting to fulfill professional or general interest needs.

CURRICULUM

Technical/Vocational (Major)	58
Related	24
General Electives	22
Electives (9 if BUS 153 waived for 30 wpm)	<u>6</u>
	110

Major Requirements:				Related Requirements:			
BUS	130	Principles of Industrial Management	5	BUS	120	Machine Calculations	4
BUS	133	Industrial Safety	5	BUS	150, 151	Business Law	6
BUS	134	Principles of Supervision	3	BUS	228	Consumer Finance	3
BUS	135	Work Measurement	5	BUS	153	Typewriting	3
BUS	224	Business Management	5	BUS	136	Professional Development	3
BUS	225	Principles of Marketing	5	MAT	120	General Mathematics	5
BUS	230	Quality Control	4	General Education Requirements:			
BUS	232	Labor Economics and Relations	5	ENG	101, 102, 103	English	9
BUS	233	Foremanship Supervision	3	or ENG	151, 152, 153		
BUS	234	Personnel Management	3	SPH	251	Public Speaking	3
BUS	235	Production Planning	5	ECO	251, 252	Economics	10
BUS	152	Introduction to Business	5	Elective Requirements: (9 if BUS 153 waived for 30 WPM)			
EDP	151	Intro. to Data Processing	5	Electives			6

			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>FOURTH QUARTER</b>			
ENG	101	Grammar I	3	BUS	233	Foremanship	
BUS	152	Intro. to Business	5			Supervision	3
BUS	150	Business Law	3	BUS	136	Professional	
BUS	224	Business Management	5			Development	3
MAT	120	General Mathematics	5	ECO	251	Macroeconomics	5
				BUS	235	Production Planning	5
				BUS	228	Consumer Finance	3
<b>SECOND QUARTER</b>				<b>FIFTH QUARTER</b>			
ENG	102	Composition	3	ECO	252	Microeconomics	5
EDP	151	Introduction to Data		BUS	120	Machine Calculations	4
		Processing	5	BUS	234	Personnel Management	3
BUS	151	Business Law	3	BUS	225	Principles of Marketing	5
BUS	130	Principles of Industrial					
		Management	5				
		Elective	3				
<b>THIRD QUARTER</b>				<b>SIXTH QUARTER</b>			
ENG	103	Technical Writing	3	BUS	230	Quality Control	4
BUS	135	Work Measurement	5	SPH	251	Public Speaking	3
BUS	134	Principles of		BUS	232	Labor Economics &	
		Supervision	3			Relations	5
BUS	153	Typewriting (waived for				Elective	3
		30 wpm)	3				
BUS	133	Industrial Safety	5				





**STRUCTURAL CLAY PRODUCTS TECHNOLOGY (T-206)****Associate in Applied Science Degree**

This curriculum provides a basic background in ceramic-related theory with practical applications in business and industry. Courses are designed to develop competent technicians who may work as assistants to engineers or as liaisons between engineers and skilled craftpersons, and in some industries as a skilled craftperson.

The structural clay products technician will start in one or more of the following areas: production, procurement, research, design and development, quality control, or maintenance. The graduate may begin as a ceramics technician, a machine or function supervisor (procurement, grinding, setting, kiln supervisor, or handling supervisor), engineering aide, laboratory technician, or maintenance director.

**CURRICULUM**

Technical/vocational (Major)	54
Related	33
General Education	18
Electives	3
Work Experience	<u>4</u>
	112

Major Requirements				General Education:			
CER	101	Ceramic Mineral Systems	4	ENG	101	Grammar I	3
CER	102	Ceramic Materials	5	ENG	102	Composition	3
CER	103	Ceramic Processes	5	ENG	103	Technical Writing	3
CER	104	Combustion I	3	SPH	251	Public Speaking	3
CER	201	Combustion II	4			Social Science Elective	3
CER	203	Statistical Quality Control	4			Social Science Elective	3
CER	206	Automated Ceramic Production	3	Related Courses:			
CER	207	ASTM Procedures	4	CHM	161	General Chemistry	4
CER	208	Product Analysis Laboratory	3	MAT	151	Fundamentals of Mathematics	5
CER	209	Seminar in Industrial Problems	3	EGR	151	Introduction to Graphics	3
CHM	110	Chemistry for Ceramics	4	EGR	152	Engineering Graphics	3
EGR	101	Control Systems	4	MAT	161	College Algebra	5
ELC	111	Introduction to Electricity	4	PHY	101	Applied Physics	4
ELC	222	Solid State Controls	4	MAT	162	Trigonometry	5
				EDP	130	IBM PC DOS	1
				BUS	134	Supervision	3

**FIRST QUARTER**

EGR	151	Introduction to Graphics	3
CHM	161	General Chemistry	4
MAT	151	Fundamentals of Mathematics	5
ENG	101	Grammar I	3
CER	101	Ceramic Mineral Systems	4

**SECOND QUARTER**

EGR	152	Engineering Graphics	3
CHM	110	Chemistry for Ceramics	4
MAT	161	College Algebra	5
ENG	102	Composition	3
CER	102	Ceramic Materials	5

**THIRD QUARTER**

PHY	101	Applied Physics	4
MAT	162	Trigonometry	5
ENG	103	Technical Writing	3
CER	103	Ceramic Processes	5
CER	104	Combustion I	3

**FOURTH QUARTER (Summer)**

COE	151	Cooperative Education Internship	4
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(Approved courses may be substituted in lieu of work experience)

**FIFTH QUARTER**

ELC	111	Introduction to Electricity	4
SPH	251	Public Speaking	3
EDP	130	IBM PC DOS	1
CER	201	Combustion II	4
		Elective	3

**SIXTH QUARTER**

CER	203	Statistical Quality Control	4
CER	206	Automated Ceramic Production	3
CER	208	Product Analysis Laboratory	3
EGR	101	Control Systems	4
		Social Science Elective	3

**SEVENTH QUARTER**

CER	207	ASTM Procedures	4
CER	209	Seminar in Industrial Problems	3
BUS	134	Supervision	3
ELC	222	Solid State Controls	4
		Social Science Elective	3





**BASIC LAW ENFORCEMENT TRAINING (T-189)****CERTIFICATE PROGRAM**

The Basic Law Enforcement Training curriculum certificate program prepares the individuals to take the Basic Training Law Enforcement Officers certification examination mandated by the North Carolina Criminal Justice Education and Training Standards Commission and/or it prepares individuals to take the Justice Officers Basic Training certification examination mandated by the North Carolina Sheriffs' Education and Training Standards Commission. Successful completion of this curriculum certificate program requires that the student satisfy the minimum requirements for certification by the Criminal Justice Commission and/or the Sheriffs' Commission. The student satisfactorily completing this program should possess at least the minimum degree of general attributes, knowledge, and skills to function as an inexperienced law enforcement officer.

Job opportunities are available with state, county, and municipal governments in North Carolina. In addition, knowledge, skills, and abilities acquired in this course of study qualify one for job opportunities with private enterprise in such areas as industrial, retail, and private security.





## VOCATIONAL PROGRAMS

Vocational curriculums are designed to prepare individuals for skilled or semiskilled employment opportunities and study is primarily oriented to the development of manipulative skill competencies for use in a specialized occupation. Programs consist of a sequence of courses which generally can be completed in one year or less by a full-time student and successful completion of a vocational curriculum program leads to a diploma or certificate.

The diploma is awarded to the graduate of a vocational curriculum that is 64 or more quarter hour credits in length. The college may offer specially designed certificate curriculums by selecting a series of existing specialty courses from approved diploma curriculums. Such certificate curriculums must be at least 16 quarter hour credits in length.

An overall grade point average of 2.00 or higher is required for all diplomas and certificates.





## **AIR CONDITIONING, HEATING, AND REFRIGERATION (V-024)**

### **DIPLOMA PROGRAM**

The Air Conditioning, Heating, and Refrigeration curriculum develops an understanding of the basic principles involved in the construction, installation, operation and maintenance of climate control equipment. Courses in blueprint reading, duct construction, welding, circuits and controls, math, science and general education are included to help provide supporting skills necessary for the mechanic to function successfully in the trade.

The air conditioning, heating, and refrigeration mechanic installs, maintains, services, and repairs environmental control systems in residences, department and food stores, office buildings, industries, restaurants, institutions, and commercial establishments. Job opportunities exist with companies that specialize in air conditioning, heating, and commercial refrigeration installation and service. The graduate should be able to assist in installing mechanical equipment, duct work, and electrical controls necessary in residential and commercial projects. With experience the graduate should be able to service various air conditioning, heating, and refrigeration components; troubleshoot systems; and provide the preventive maintenance required by mechanical equipment. This person may be employed in areas of maintenance, installation, sales, and service in the field of air conditioning, heating and cooling.



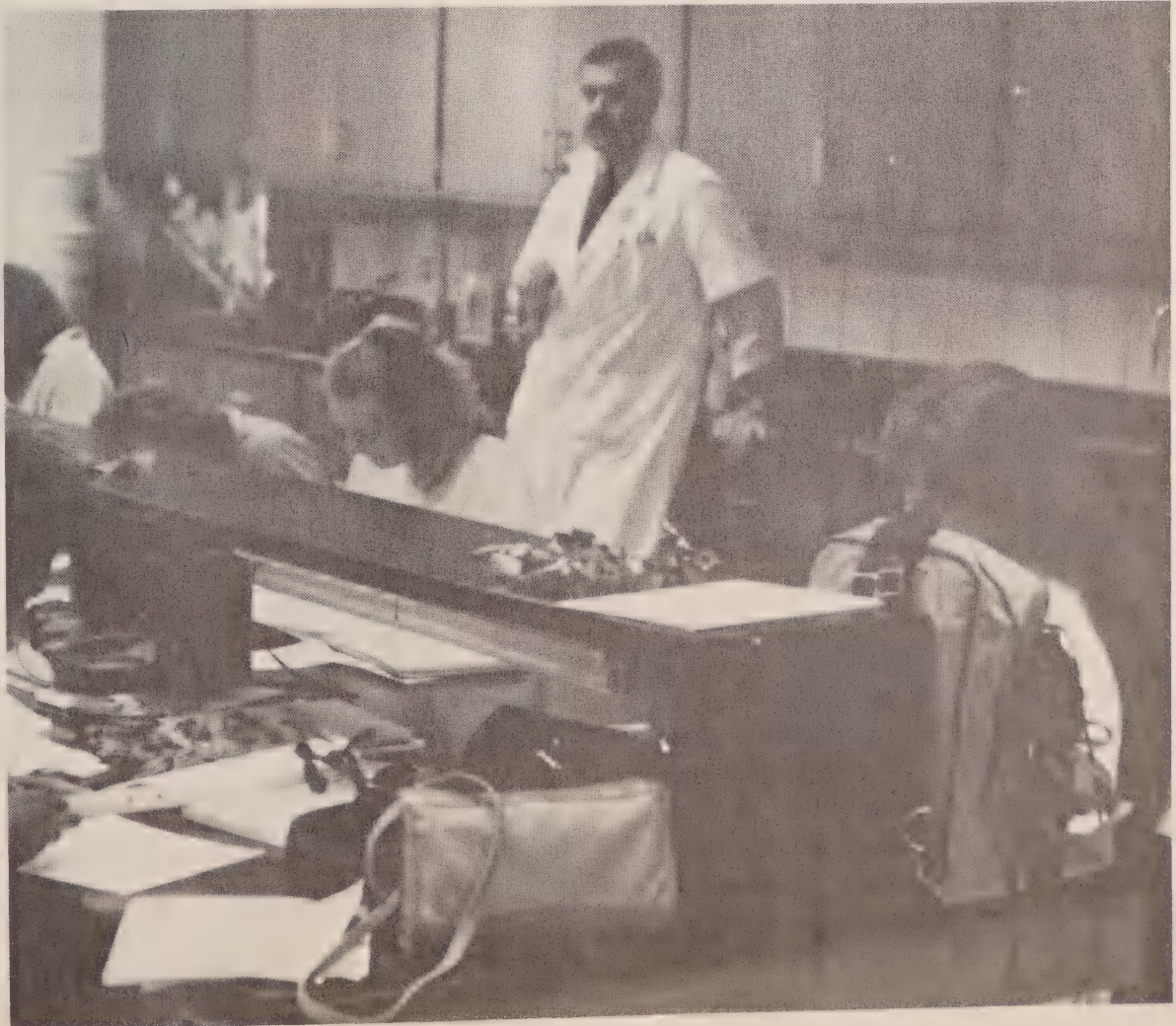
CURRICULUM

Technical/Vocational (Major)	42
Related	17
General Electives	<u>9</u>
Total	68

Major Requirements:			Qtr.	Hrs.	Related Requirements:			Qtr.	Hrs.
AHR	1126	All Year Comfort Systems		4	MAT	1101	Trade Mathematics I	3	
MEC	1120	Duct Construction and Maintenance		2	MAT	1102	Trade Mathematics II	3	
AHR	1121	Principles of Refrigeration		4	MAT	1103	Trade Mathematics III		3
AHR	1111	Automatic Controls I		4	PHY	1101	Applied Science I		3
WLD	1105	Air Conditioning - Welding		2	DFT	1110	Blueprint Reading: Building Trades		2
AHR	1122	Domestic and Commercial Refrigeration		4	BUS	1103	Small Business Operations		3
AHR	1115	Fundamentals of Heating		4	General Education Requirements:				
AHR	1112	Automatic Controls II		2	RDG	1101	Vocational Reading Improvement		3
AHR	1123	Principles of Air Conditioning		4	ENG	1102	Communication Skills		3
AHR	1102	Steam and Hot Water Heating and Cooling Systems		4	BUS	136	Personal Development		3
DFT	1116	Blueprint Reading: Air Conditioning		1					
AHR	1125	Heat Loss and Heat Gain Calculations		3					
AHR	1124	Air Conditioning, Heating, Refrigeration Servicing		4					



			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>THIRD QUARTER</b>			
AHR	1121	Principles of Refrigeration	4	AHR	1123	Principles of Air Conditioning	4
AHR	1111	Automatic Controls I	4	AHR	1125	Heat Loss and Heat Gain Calculations	3
WLD	1105	Air Conditioning - Welding	2	AHR	1102	Steam and Hot Water Heating and Cooling Systems	4
RDG	1101	Vocational Reading Improvement	3	MAT	1103	Trade Mathematics III	3
MAT	1101	Trade Mathematics I	3	BUS	136	Personal Development	3
PHY	1101	Applied Science I	3				
<b>SECOND QUARTER</b>				<b>FOURTH QUARTER</b>			
AHR	1122	Domestic and Commercial Refrigeration	4	AHR	1124	Air Conditioning, Heating, Refrigeration Servicing	4
AHR	1115	Fundamentals of Heating	4	AHR	1126	All Year Comfort Systems	4
AHR	1112	Automatic Controls II	2	DFT	1116	Blueprint Reading: Air Conditioning	1
ENG	1102	Communication Skills	3	MEC	1120	Duct Construction and Maintenance	2
MAT	1102	Trade Mathematics II	3	BUS	1103	Small Business Operations	3
DFT	1110	Blueprint Reading: Building Trades	2				



AUTOMOTIVE MECHANICS (V-003)

DIPLOMA PROGRAM

The Automotive Mechanics curriculum provides a training program for developing the basic knowledge and skills needed to inspect, diagnose, repair and adjust automotive vehicles. Manual skills are developed in practical shop work and the technical understanding of the operating principles involved in the modern automobile are taught through class assignments, discussions and shop practices.

Automobile mechanics maintain and repair mechanical, electrical and body parts of passenger cars, trucks and buses. In some communities and rural areas they also may service tractors or marine engines and other gasoline-powered equipment. Mechanics inspect and test to determine the causes of faulty operation. They repair or replace defective parts to restore the vehicle or machine to proper operating condition and use shop manuals and other technical publications as references for technical data. Persons completing this curriculum may find employment with franchised automobile dealers, independent garages, or may start their own business.

CURRICULUM

Technical/Vocational (Major)	46
Related	14
General Education	<u>9</u>
Total	69

Major Requirements:				Qtr.	Hrs.				
PME	1101	Internal Combustion Engines	4	PME	1125	Automotive Servicing	4		
PME	1203	Diesel Engine Servicing	4	PME	1232	Front End Drive Train, Steering & Alignment	2		
PME	1205	Diesel Engine Fuel Systems	3	PME	1121	Front Suspension, Alignment & Power Steering	2		
PME	1102	Engine Ignition & Fuel Systems	4	PME	1224	Automatic Transmissions	5		
PME	1110	Emission Control Systems	2					46	
PME	1120	Automotive Electrical Systems	2	Related Requirements:		Qtr.		Hrs.	
PME	1221	Advanced Electrical Systems	2	PHY	1101	Applied Science I	3		
PME	1113	Brake Systems	2	MAT	1101	Trade Mathematics I	3		
PME	1116	Front End Alignment & Wheel Balancing	2	MAT	1102	Trade Mathematics II	3		
AHR	1101	Automotive Air Conditioning	3	WLD	1101	Basic Oxyacetylene Welding	2		
MEC	1110	Machine Processes I	3	BUS	1103	Small Business Operations	3		
PME	1124	Automotive Power Train Systems	2					14	



## General Requirements:

RDG	1101	Vocational Reading Improvement	3
ENG	1102	Communication Skills	3
BUS	136	Personal Development	<u>3</u>
			9

		Course Title	Qtr. Hrs. Credit
<b>FIRST QUARTER</b>			
PME	1101	Internal Combustion Engines	4
PME	1120	Automotive Electrical Systems	2
PME	1125	Automotive Servicing	4
PHY	1101	Applied Science I	3
MAT	1101	Trade Mathematics I	3
RDG	1101	Vocational Reading Improvement	3

<b>SECOND QUARTER</b>			
PME	1102	Engine Ignition and Fuel Systems	4
PME	1110	Emission Control Systems	2
PME	1205	Diesel Engine Fuel Systems	3
WLD	1101	Basic Oxyacetylene Welding	2
MAT	1102	Trade Mathematics II	3
ENG	1102	Communication Skills	3
PME	1221	Advanced Electrical Systems	2

		Course Title	Qtr. Hrs. Credit
<b>THIRD QUARTER</b>			
PME	1113	Brake Systems	2
PME	1116	Front End Alignment and Wheel Balancing	2
PME	1121	Front Suspension, Alignment and Power Steering	2
PME	1232	Front End Drive Train, Steering & Alignment	2
AHR	1101	Automotive Air Conditioning	3
MEC	1110	Machine Processes I	3
BUS	136	Personal Development	3

<b>FOURTH QUARTER</b>			
PME	1124	Automotive Power Train Systems	2
PME	1203	Diesel Engine Servicing	4
PME	1224	Automatic Transmissions	5
BUS	1103	Small Business Operations	3

\*Optional course not required for program completion.

**COSMETOLOGY (V-009)****ADVANCED DIPLOMA PROGRAM**

The field of cosmetology is based on scientific principles. The Cosmetology curriculum provides instruction and practice in manicuring, shampooing, permanent waving, facials, massages, scalp treatments, hair cutting and styling and wig service.

Upon completion of this program and successful passing of a comprehensive examination administered by the North Carolina State Board of Cosmetic Arts, a license is given. The cosmetologist is called upon to advise men and women on problems of make-up and care of the hair, skin and hands including the nails. Employment opportunities are available in beauty salons, private clubs, department stores, women's specialty shops, as well as setting up one's own business.

Mitchell Community College offers this curriculum through a contractual agreement with Carolina Beauty Systems, Inc. Classes are offered at Career Beauty College in Statesville. Related courses may be taught on the Mitchell campus.

**Advanced Diploma Curriculum**

Technical/Vocational (Major)	60
Related	6
General Education	<u>6</u>
Total	72

**Major Requirements:**

COS 1001	Scientific Study I	10
COS 1002	Scientific Study II	5
COS 1003	Scientific Study III	5
COS 1004	Scientific Study IV	5
COS 1011	Mannequin Practice	5
COS 1022	Clinical Applications I	10
COS 1033	Clinical Applications II	10
COS 1044	Clinical Applications III	10
		<u>60</u>

**Related Requirements:**

MAT 1104	Mathematics	3
BUS 1103	Business Operations	3
		<u>6</u>

**General Education Requirements:**

ENG 1102	Communication Skills	3
PSY 1101	Human Relations	3
		<u>6</u>



<i>Course Title</i>		<i>Qtr. Hrs. Credit</i>	<i>Course Title</i>		<i>Qtr. Hrs. Credit</i>
<b>FIRST QUARTER</b>			<b>THIRD QUARTER</b>		
COS 1001	Scientific Study I	10	COS 1003	Scientific Study III	5
COS 1011	Mannequin Practice	5	COS 1033	Clinical Applications II	10
MAT 1104	Mathematics	3	PSY 1101	Human Relations	3
<b>SECOND QUARTER</b>			<b>FOURTH QUARTER</b>		
COS 1002	Scientific Study II	5	COS 1004	Scientific Study IV	5
COS 1022	Clinical Applications I	10	COS 1044	Clinical	
ENG 1102	Communication Skills	3		Applications III	10
			BUS 1103	Business Operations	3

Evening Diploma

<i>Course Title</i>		<i>Qtr. Hrs. Credit</i>	<i>Course Title</i>		<i>Qtr. Hrs. Credit</i>
<b>FIRST QUARTER</b>			<b>FIFTH QUARTER</b>		
COS 1001A	Scientific Study I	4	COS 1003A	Scientific Study III	2
COS 1011A	Mannequin Practice	3	COS 1033A	Clinical Applications II	5
	Related Course	3		Related course	3
<b>SECOND QUARTER</b>			<b>SIXTH QUARTER</b>		
COS 1001B	Scientific Study I	6	COS 1003B	Scientific Study III	3
COS 1011B	Mannequin Practice	2	COS 1033B	Clinical Applications II	5
<b>THIRD QUARTER</b>			<b>SEVENTH QUARTER</b>		
COS 1002A	Scientific Study II	2	COS 1004A	Scientific Study IV	2
COS 1022A	Clinical Applications I	5	COS 1044A	Clinical Applications III	5
	Related course	3		Related course	3
<b>FOURTH QUARTER</b>			<b>EIGHTH QUARTER</b>		
COS 1002B	Scientific Study II	3	COS 1004B	Scientific Study IV	3
COS 1022B	Clinical Applications I	5	COS 1044B	Clinical Applications III	5

The advanced diploma may be earned day or evening.

DRAFTING — MECHANICAL (V-017)

DIPLOMA PROGRAM

The Drafting — Mechanical curriculum prepares individuals to enter the field of mechanical drafting. Courses are arranged in sequence to develop drafting skills and proficiency in mathematics and science. The draftsman associates with many levels of personnel—administrators, engineers, skilled workers—and must be able to communicate effectively with them.

The mechanical drafting graduate performs the duties of a general drafter, specializing in making rough drafting sketches of proposed mechanical devices, and then draws necessary details. The drafter also prepares accurate scale drawings of parts for machines from specifications.

CURRICULUM

Technical/Vocational (Major)	43
Related	20
General Electives	<u>9</u>
Total	72

Major Requirements:				Qtr.	Hrs.	Related Requirements:				Qtr.	Hrs.
DFT	1120	Basic Drafting		4		MAT	1101	Trade Mathematics I		3	
DFT	1121	Basic Industrial				MAT	1102	Trade Mathematics II		3	
		Drafting		2		MAT	1103	Trade			
DFT	1122	Technical Sketching		2				Mathematics III		3	
DFT	1123	Advanced Drafting		4		PHY	1101	Applied Science I		3	
DFT	1124	Dimensioning and				PHY	1102	Applied Science II		3	
		Tolerancing		4		WLD	1102	Basic Arc Welding		2	
DFT	1131	Mechanical Drafting I		4		BUS	1103	Small Business			
DFT	1125	Descriptive Geometry		4				Operations		3	
DFT	1128	Technical Illustration		2		General Education Requirements:					
DFT	1132	Mechanical				RDG	1101	Vocational Reading			
		Drafting II		4				Improvement		3	
DFT	1134	Architectural Drafting		2		ENG	1102	Communication Skills		3	
DFT	1130	Computer Assisted				BUS	136	Professional			
		Drafting		2				Development		3	
MEC	1110	Machine Processes I		3							
MEC	1111	Machine Processes II		3							
MEC	1115	Physical Metallurgy		3							



			Qtr. Hrs.				Qtr. Hrs.
Course Title			Credit	Course Title			Credit
<b>FIRST QUARTER</b>				<b>THIRD QUARTER</b>			
DFT	1120	Basic Drafting	4	DFT	1131	Mechanical Drafting I	4
DFT	1121	Basic Industrial Drafting	2	DFT	1125	Descriptive Geometry	4
DFT	1122	Technical Sketching	2	DFT	1128	Technical Illustration	2
MAT	1101	Trade Mathematics I	3	MEC	1110	Machine Processes I	3
PHY	1101	Applied Science I	3	BUS	136	Professional Development	3
RDG	1101	Vocational Reading Improvement	3	MAT	1103	Trade Mathematics III	3
<b>SECOND QUARTER</b>				<b>FOURTH QUARTER</b>			
DFT	1123	Advanced Drafting	4	DFT	1132	Mechanical Drafting II	4
DFT	1124	Dimensioning and Tolerancing	4	DFT	1134	Architectural Drafting	2
MAT	1102	Trade Mathematics II	3	DFT	1130	Computer Assisted Drafting	2
ENG	1102	Communication Skills	3	MEC	1111	Machine Processes II	3
PHY	1102	Applied Science II	3	MEC	1115	Physical Metallurgy	3
WLD	1102	Basic Arc Welding	2	BUS	1103	Small Business Operations	3







				Qtr. Hrs.					Qtr. Hrs.
Course Title				Credit	Course Title				Credit
FIRST QUARTER					THIRD QUARTER				
ELC	112	Electrical			ELN	121	Electronics I		5
		Fundamentals I		6	ELC	1124	Residential Wiring		8
ELC	113	Electrical			DFT	1113	Blueprint Reading:		
		Fundamentals II		6			Electrical		1
ELC	1115	Electrical Mathematics		5	BUS	136	Professional		
RDG	1101	Vocational Reading					Development		3
		Improvement		3					
PHY	1101	Applied Science I		3					
SECOND QUARTER					FOURTH QUARTER				
ELC	1103	AC & DC Machines		6	ELN	1119	Industrial Electronics		5
ELC	1104	AC & DC Machine			ELC	1125	Commercial and		
		Controls		6			Industrial Wiring		8
PHY	1102	Applied Science II		3	BUS	1103	Small Business		
ENG	1102	Communication Skills		3			Operations		3
DFT	1110	Blueprint Reading:							
		Building Trades		2					



**INDUSTRIAL ELECTRONICS (V-045)****DIPLOMA PROGRAM**

This program is designed to prepare individuals to repair and maintain electronic machines, controls, and components which are used by various industrial operations. Individuals in the program learn to read blueprints, to determine repair procedures, to dismantle and assemble electronic components and to make necessary sensitive adjustments to meet specifications. A large portion of the laboratory time is spent verifying electronic principles and development service techniques.

The graduate of this curriculum is prepared to maintain and service industrial electronic devices found in most manufacturing and service operations.

**CURRICULUM**

Technical/Vocational (Major)	50
Related	14
General Education	<u>9</u>
	73

Major Requirements:			Qtr. Hrs.	Related Requirements:			Qtr. Hrs.
ELC	112	Electrical		PHY	1101	Applied Science I	3
		Fundamentals I	6	PHY	1102	Applied Science II	3
ELC	113	Electrical		ELC	1115	Electrical Mathematics	5
		Fundamentals II	6	BUS	1103	Small Business	
ELC	1103	AC & DC Machines	6			Operations	<u>3</u>
ELC	1104	AC & DC Machine					14
		Controls	6	General Educational Requirements:			
ELN	121	Electronics I	5	RDG	1101	Vocational Reading	
ELN	1108	Switch and Digital				Improvement	3
		Control	6	ENG	1102	Communications	
ELN	1110	Programmable Controls	6			Skills	3
ELN	1119	Industrial Electronics	5	BUS	136	Professional	
EDP	158	Introduction to the				Development	<u>3</u>
		IBM PC With Basic					9
		Programming	<u>4</u>				
			50				



<i>Course Title</i>			<i>Qtr. Hrs.</i>	<i>Course Title</i>			<i>Qtr. Hrs.</i>
<b>FIRST QUARTER</b>				<b>THIRD QUARTER</b>			
ELC	112	Electrical		ELN	121	Electronics I	5
		Fundamentals I	6	ELN	1108	Switch and Digital	
ELC	113	Electrical				Control	6
		Fundamentals II	6	EDP	158	Introduction to The	
ELC	1115	Electrical Mathematics	5			IBM PC with Basic	
RDG	1101	Vocational Reading				Programming	4
		Improvement	3	BUS	136	Professional	
PHY	1101	Applied Science I	3			Development	3
<b>SECOND QUARTER</b>				<b>FOURTH QUARTER</b>			
ELC	1103	AC & DC Machines	6	ELN	1110	Programmable Controls	6
ELC	1104	AC & DC Machine		ELN	1119	Industrial Electronics	5
		Controls	6	BUS	1103	Small Business	
ENG	1102	Communication Skills	3			Operations	3
PHY	1102	Applied Science II	3				



**INDUSTRIAL MAINTENANCE (V-028)****DIPLOMA PROGRAM**

The curriculum in Industrial Maintenance prepares students to repair and maintain machinery, electrical wiring and fixtures, and hydraulic and pneumatic devices found in industrial establishments.

Industrial maintenance persons may be required to install, maintain and service mechanical equipment; follow blueprints and sketches; and use hand tools, metalworking machines, measuring instruments and testing instruments. They operate metalworking machines such as the lathe, milling machine and drill press to make repairs. They use the micrometer and calipers to verify dimensions. They assemble wires, insulation, and electrical components using hand tools and soldering equipment. They test electrical circuits and components to locate shorts, faulty connections and defective parts. They inspect, test and repair hydraulic equipment.

**CURRICULUM**

Technical/Vocational (Major)	48
Related	17
General Education	<u>9</u>
Total	74

Major Requirements:				Qtr.	Hrs.	Related Requirements:				Qtr.	Hrs.
ELC	112	Electrical				PHY	1101	Applied Science I			3
		Fundamentals I		6		PHY	1102	Applied Science II			3
ELC	113	Electrical				DFT	1110	Blueprint Reading:			
		Fundamentals II		6				Building Trades			2
ELC	1103	AC & DC Machines		6		DFT	1113	Blueprint Reading:			
ELC	1104	AC & DC Machine						Electrical			1
		Controls		6		ELC	1115	Electrical			
ELN	121	Electronics I		5				Mathematics			5
MEC	1110	Machine Processes I		3		BUS	1103	Small Business			
MEC	1111	Machine Processes II		3				Operations			<u>3</u>
MEC	1133	Mechanical									17
		Maintenance		4		General Requirements					
MEC	1140	Hydraulic				RDG	1101	Vocational Reading			
		Fundamentals		3				Improvement			3
AHR	1110	Industrial Heating		4		ENG	1102	Communication Skills			3
WLD	1101	Basic Oxyacetylene				BUS	136	Professional			
		Welding		<u>2</u>				Development			<u>3</u>
				48							9



			<i>Qtr. Hrs.</i>				<i>Qtr. Hrs.</i>
<i>Course Title</i>			<i>Credit</i>	<i>Course Title</i>			<i>Credit</i>
<b>FIRST QUARTER</b>				<b>THIRD QUARTER</b>			
ELC	112	Electrical		ELN	121	Electronics I	5
		Fundamentals I	6	MEC	1110	Machine Processes I	3
ELC	113	Electrical		MEC	1140	Hydraulic	
		Fundamentals II	6			Fundamentals	3
ELC	1115	Electrical Mathematics	5	DFT	1113	Blueprint Reading:	
RDG	1101	Vocational Reading				Electrical	1
		Improvement	3	BUS	136	Professional	
PHY	1101	Applied Science I	3			Development	3
				WLD	1101	Basic Oxyacetylene	
						Welding	2
<b>SECOND QUARTER</b>				<b>FOURTH QUARTER</b>			
ELC	1103	AC & DC Machines	6	MEC	1111	Machine Processes II	3
ELC	1104	AC & DC Machine		MEC	1133	Mechanical Maintenance	4
		Controls	6	AHR	1110	Industrial Heating	4
DFT	1110	Blueprint Reading:		BUS	1103	Small Business	
		Building Trades	2			Operations	3
ENG	1102	Communication Skills	3				
PHY	1102	Applied Science II	3				



**WELDING (V — 050)****DIPLOMA PROGRAM**

The Welding curriculum gives students sound understanding of the principles, methods, techniques and skills essential for successful employment in the welding field and metals industry. Welders join metals by applying intense heat, and sometimes pressure to form a permanent bond between intersecting metals.

Welding offers employment in practically any industry; shipbuilding, automotive, aircraft, guided missiles, heavy equipment, railroads, construction, pipefitting, production shops, job shops and many others.

**CURRICULUM**

	Qtr. Hrs.
Technical/Vocational (Major)	45
Related	17
General Education	<u>9</u>
Total	71

Major Requirements:			Qtr. Hrs.	Related Requirements			Qtr. Hrs.
WLD	1110	Oxyacetylene Welding	4	PHY	1101	Applied Science I	3
WLD	1111	Oxyacetylene Cutting	2	MAT	1101	Trade Mathematics I	3
WLD	1112	Arc Welding		MAT	1102	Trade Mathematics II	3
		Fundamentals	4	DFT	1118	Pattern Development	
WLD	1113	Arc Welding				& Sketching	2
		Techniques	4	BUS	1103	Small Business	
WLD	1114	Gas Metal Arc				Operations	3
		Welding	4	MEC	1110	Machine Processes	3
WLD	1116	Fundamentals of Gas		General Education Requirements:			
		Tungsten Arc					
		Welding	4	RDG	1101	Vocational Reading	
WLD	1117	Techniques of Gas				Improvement	3
		Tungsten Arc		ENG	1102	Communication Skills	3
		Welding	4	BUS	136	Professional	
WLD	1118	Introduction to Pipe				Development	3
		Welding	2				
WLD	1122	Commercial and					
		Industrial					
		Procedures	4				
WLD	1123	Commercial and					
		Industrial					
		Practices	4				
WLD	1125	Structural Certification					
		Practice	2				
WLD	1126	Pipe Certification					
		Practice	2				
WLD	1130	Mechanical Testing					
		and Inspection	2				
DFT	1117	Blueprint Reading:					
		Welding	3				



		<i>Course Title</i>	<i>Qtr. Hrs.</i> <i>Credit</i>
<b>FIRST QUARTER</b>			
WLD	1110	Oxyacetylene Welding	4
WLD	1111	Oxyacetylene Cutting	2
PHY	1101	Applied Science I	3
RDG	1101	Vocational Reading Improvement	3
MAT	1101	Trade Mathematics I	3
WLD	1114	Gas Metal Arc Welding	4

<b>SECOND QUARTER</b>			
WLD	1112	Arc Welding Fundamentals	4
WLD	1113	Arc Welding Techniques	4
ENG	1102	Communication Skills	3
MAT	1102	Trade Mathematics II	3
DFT	1117	Blueprint Reading: Welding	3
WLD	1118	Introduction to Pipe Welding	2

		<i>Course Title</i>	<i>Qtr. Hrs.</i> <i>Credit</i>
<b>THIRD QUARTER</b>			
WLD	1116	Fundamentals of Gas Tungsten Arc Welding	4
WLD	1117	Techniques of Gas Tungsten Arc Welding	4
BUS	136	Professional Development	3
MEC	1110	Machine Processes	3
DFT	1118	Pattern Development & Sketching	2

<b>FOURTH QUARTER</b>			
WLD	1122	Commercial and Industrial Procedures	4
WLD	1123	Commercial and Industrial Practices	4
WLD	1125	Structural Certification Practice	2
WLD	1126	Pipe Certification Practice	2
BUS	1103	Small Business Operations	3
WLD	1130	Mechanical Testing and Inspection	2



## GENERAL ADULT EDUCATION

### CONTINUING EDUCATION

Mitchell Community College strives to provide academic and occupational programs consistent with the educational needs of Iredell and surrounding counties. The college provides opportunities for people to further meet their educational goals by offering programs which enable people to pursue occupational, vocational, cultural, and civic interests.

The college strives to serve the needs of the adult community by providing numerous programs of continuing education. Adult programs are held on a continuing basis and are developed according to the community's needs and interests. Courses include formal academic learning, cultural advancement, vocational and technical improvement, and personal enrichment. Any individual who is eighteen years of age or older or is a high school graduate or 16 years of age with special permission from the Superintendent of Schools may be admitted to these classes.

### CLASS LOCATIONS

Classes are held on campus and at various other locations throughout Iredell County and surrounding counties. Some of the locations are South Iredell High School, Iredell Department of Correction, Mooresville, and various industries throughout the county. An extension center is located at the Mooresville Center.

### ATTENDANCE

Most classes are scheduled on a quarterly basis. Special workshops and industrial courses are scheduled whenever necessary. Brochures are available each quarter to provide class schedules. Announcements will be made through local news media, including radio stations and the local newspaper. Classes usually meet one to three hours each night. Regular attendance should be maintained. For courses offering certificates, eighty per cent attendance is required.

### FEES AND SUPPLIES

A registration fee of \$15.00 is charged for occupational classes. A registration fee of \$20.00 is charged for avocational, academic, and practical skills classes. Students enrolled in courses for Adult Basic Education, Adult High School, Volunteer Fire Departments, local law enforcement, the Department of Correction, and persons 65 years of age or older are exempt from the registration fee. Books are available at the college bookstore or from the instructor when the class meets. The cost of supplies varies according to individual courses.

### CONTINUING EDUCATION UNIT

Continuing Education Units are awarded to all classes with the exception of Adult Basic Education, Adult High School, and craft classes. A Continuing Education Unit is defined as "ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction." These units provide a means of recording and accounting for non-credit courses, programs, and activities.



### ADULT BASIC EDUCATION

The Adult Basic Education Program is designed to assist adults in the fundamentals of English, math, reading, science, and social studies. Classes are set up at various times and locations for the convenience of students, and all materials except paper and pencils are provided. In addition to small group instruction, the opportunity for assistance on a one-to-one basis exists through the Learning Labs in Statesville and Mooresville. There is no charge for the classes or the lab. Upon completion of the ABE program students may enroll in the Adult High School Diploma program. It is recommended, but not required, that students complete the ABE program before entering the GED High School Equivalency Program.

### ADULT HIGH SCHOOL DIPLOMA PROGRAM

This program is recommended for persons who want or need a more academic program of high school completion, for example, those planning to attend college or to enlist in the Armed Forces. The courses of study required for all students are English, reading, science, social studies, and math. Instruction is offered in regular groups of classroom work if there is a sufficient number of students or through supervised individual work in the Learning Labs in Statesville and Mooresville. Upon completion of course work, the student takes a standardized test on each subject. When the student passes the five subject tests and the North Carolina Competency Test, he/she is awarded a diploma by the Mooresville or Statesville City School system.

The following requirements must be met before entering the Adult High School Diploma program:

1. Residence: A legal resident of the Mitchell Community College service area.
2. Minimum age: 18. Persons between the ages of 16 and 18 may enroll with the written permission of the Superintendent of Schools and a notarized permission letter from a parent or guardian.
3. No charge for students attending the Learning Lab.

### G.E.D. HIGH SCHOOL EQUIVALENCY PROGRAM

Under this program, individuals may take a series of tests called the General Educational Development Tests. A person's knowledge and skills are tested in five areas: reading, mathematics, natural science, English and social studies. The Equivalency Certificate is issued by the North Carolina State Board of Education and is mailed to the recipient. The certificate is recognized as the equivalent of a high school diploma by industry, agencies of government, employers, colleges, and other organizations.

The following requirements must be met before taking the GED tests:

1. Residence: A legal resident of North Carolina.
2. Minimum age: 18. If one is between the ages of 16 and 18 and displays a special need, he/she may be allowed to take the GED tests by filing a special form which is available from the GED Examiner of the Continuing Education Office. This form requires a notarized parental permission to take the tests, as well as the permission of the Superintendent of Schools.

3. Cost: \$7.50 initial testing fee.

If a person fails one or more tests, he/she may retest after a six-month waiting period. Those who wish to retest before that time must complete a program of study in a class or Learning Lab. Persons who wish to review before testing may also do so in a class or Learning Lab.

The tests are given one week every month. Interested persons should pre-register for the tests with the GED Examiner at the Continuing Education Office.

### THE LEARNING LABS

The Learning Labs, housed on campus in Statesville, and at the Mooresville Center in Mooresville, provide adults with individually scheduled, planned, and paced instruction in three major areas of concentration: high school completion, curriculum support, and special interest. The high school completion component consists of proper placement and referral, instruction in the Adult High School Diploma courses, and preparation for the GED tests. The curriculum support component provides supplementary assistance to students enrolled in campus curriculum courses. The special interest component includes courses for self-improvement, enrichment, and credit, with actual credit awarded by outside institutions. Materials are provided for use in the Lab and guidance is given by lab coordinators. Lab hours are 8:00 a.m. until 9:00 p.m. Monday through Thursday and 8:00 a.m. until 5:00 p.m. on Friday in Statesville and 8:00 a.m. until 5:00 p.m. Monday through Friday in Mooresville. There is no charge for courses taken through the Labs.





## CONTINUING EDUCATION COURSE DESCRIPTIONS

Courses listed here are representative of the courses offered by Continuing Education throughout the year. These courses may or may not be offered every quarter as scheduling is dependent upon the interests and needs of the community. Recommendations and suggestions from students and from the community are used in planning and expanding the schedule of courses to be offered. The abbreviation, CEU, means Continuing Education Units with each unit representing ten hours of instruction.

### HUMANITIES

This classification of continuing education encompasses the area of learning which includes literature, philosophy, history, and the fine arts in the form and style that is favored by the local population.

#### ART A-301

ART-2001 ACRYLICS I—33 hrs. .... 3.3 CEU's

This is a course for those who have not painted in acrylics before. It is to teach simply how to handle the media, how to mix colors, and how to begin to paint.

ART-2001 ACRYLICS II—33 hrs. .... 3.3CEU's

Acrylics II is a course designed for advanced students who have done acrylic painting, but would like to experiment in learning to use different techniques.

ART-2003 BEAD CRAFT—22 hrs. .... 2.2 CEU's

This course is designed to introduce students to the art of making jewelry from pearls and beads. Several methods are used to make jewelry, including crocheting, cross needle and single needle.

ART-2003 CANDLE CRAFT—22 hrs. .... 2.2 CEU's

The art of making candles, which includes the melting and pouring of candles as well as the decoration of many different types is covered by this class.

ART-2003 COPPER ENAMELING—22 hrs. .... 2.2 CEU's

Enameling is a process of sifting a coat of enamel on metal and firing it in a kiln for two to three minutes. Students learn to make trays, bowls, and earrings with a variety of finishes.

ART-2003 NEEDLECRAFT—33 hrs. .... 3.3 CEU's

Needlecraft is a course which teaches the basic aspects of knitting, crocheting, and crewel embroidery. Introduction will cover basic stitches and gradual progression in all phases.

ART-2003 NEEDLEPOINT—33 hrs. .... 3.3 CEU's

Instructions are given for sixteen needlepoint stitches. There will be a study of the material to be used. At the end of the course, the students will make something of their choice.

ART-2003 FURNITURE REFINISHING—44 hrs. .... 4.4 CEU's

Instruction in this course will train adults in the best procedures of refinishing furniture. Students will learn to strip furniture, prepare the wood, and apply the finishes.

- ART-2005 DECOUPAGE—44 hrs..... 4.4. CEU's  
Students of these classes develop skills in applying decorative paper cutouts to bottles, boxes, boards, etc., to produce unique and interesting items for decorative display.
- ART-2006 DRAWING—33 hrs..... 3.3 CEU's  
The fundamentals of design, composition and perspective will be the central theme of this course. The beginning or advanced study may work with pencil, ink or charcoal as the media to develop a skill in sketching or drawing.
- ART-208 GUITAR—33 hrs..... 3.3 CEU's  
This course is designed to help students gain a basic understanding of and skill in playing the guitar. Students will learn notes and chords on the guitar and will be able to play a number of songs.
- ART-2011 BASIC & ADVANCED PHOTOGRAPHY—33 hrs..... 3.3 CEU's  
These courses will include basic introductions to photography and nomenclature of equipment, types of cameras and their uses, basic film types and their uses, what to photograph and why, how to show what you need in a court of law, and an introduction to photography in court and review.
- ART-2015 SKETCHING—22 hrs. .... 2.2 CEU's  
This course is designed to introduce students to various creative techniques of sketching. Class work involves both lecture and sketching exercises.
- ART-2019 CERAMICS I—33 hrs. .... 3.3 CEU's  
Ceramics I is designed as an introduction to the art of ceramics. Students will be involved in pouring molds, using glazes, painting, and firing.
- ART-2019 CERAMICS II—33 hrs. .... 3.3 CEU's  
Ceramics II is a follow-up course designed to meet the needs of the experienced students. These students will be involved with the use of more advanced procedures, stains, and molds.

#### RELIGION A-302

- Rel-2001 BIBLE STUDY—33 hrs. .... 3.3 CEU's  
This is general Bible study in which topics such as how the English Bible came into being will be covered. Biblical themes such as grace, love, salvation and judgment will also be studied.

#### MATH A-501

- MAT-2007 MODERN MATH—33 hrs..... 3.3 CEU's  
This course is designed as an introductory or refresher course in modern math. Some topics that will be covered are introduction to numbers, place values, number bases other than 10, sets, and word problems.

#### ANTHROPOLOGY A-701

- ANT-2003 ARCHAEOLOGY—33 hrs. .... 3.3 CEU's  
This course was designed for people interested in collecting Indian artifacts, and in knowing what they have found. Some topics to be covered are history of N.C. Indians, artifacts and classification, site surveys, recording and procedures of excavation.



**ECONOMICS A-702**

- ECO-2006 MONEY AND BANKING—45 hrs. .... 4.5 CEU's**  
 Money and Banking is a basic course in banking principles. Topics to be covered range from functions of banking services to operations.

**HISTORY A-704**

- HIS—2004 LOCAL HISTORY—33 hrs. .... 3.3 CEU's**  
 This course is designed to teach students how to research local historical documents.

**TECHNICAL EXTENSION**

Extension courses in this classification are designed to equip students with the practical, industrial knowledge of a specific nature which will increase the student's technical skill.

**PHYSICS: ELECTRICAL & ELECTRONICS OPTIONS S-501**

- ELN-3004 RADIO AND T.V. REPAIR—66 hrs..... 6.6 CEU's**  
 This course will consist of 50 hours of study in basic electricity, 10 hours on safety methods, 22 hours on the use of test equipment, 15 hours on understanding and using schematics and diagrams, 20 hours for discussion of components, 15 hours on understanding radio and T.V. signals, and 30 hours on the use and operation of Solid State.

**VOCATIONAL EXTENSION**

This classification of extension courses is provided to aid students in the development of new skills, or the upgrading of existing skills, which are in demand among employees. Students are expected to develop a special degree of fitness in these classes when they apply themselves in the prescribed manner through the complete schedule of learning experiences prepared by the instructor.

**ORNAMENTAL HORTICULTURE W-117**

- AGR-3301 BASIC HORTICULTURE—33 hrs. .... 3.3 CEU's**  
 This course deals with horticulture principles and the application of plant science fundamentals to horticulture practices.
- AGR-3304 BONSAI—33 hrs. .... 3.3 CEU's**  
 Bonsai is a course designed to teach the art of dwarfing and shaping trees and shrub for arrangements.

**ADVERTISING W-220**

- DMK-3105 FCC LICENSE COURSE—66 hrs. .... 6.6 CEU's**  
 This class will prepare a student to take the written examination for the Commercial Radio-Telephone 1st Class Operator Licenses. The class will cover such topics as Basic Law, Basic Operating Practice, Basic Radio-Telephone and Advanced Radio-Telephone.

**HOSPITALITY W-210**

- HOS-3001 BASIC QUANTITY COOKING—60 hrs. .... 6.0 CEU's**  
 This course deals with principles of interpreting menus, menu terms, recipes, measurements and other data relative to the cooking profession.

HOS-3010      **FOOD SERVICE SELLING—120 hrs. .... 12.0 CEU's**  
This course is designed to teach the basics of good food service selling. Some topics to be covered are the waiter and waitress, types of table service and settings, sidework, initiating the service, serving the meal, wine, and bar service.

HOS-3024      **OVERVIEW OF SCHOOL FOOD SERVICE—60 hrs. .... 6.0 CEU's**  
A basic orientation course presenting the history of school feeding, characteristics of a good program, personnel and human relations, nutrition, sanitation and safety.

HOS-3032      **PROCUREMENT IN SCHOOL FOOD SERVICE—60 hrs. .... 6.0 CEU's**  
This course is designed for directors of school food service. It covers such items as organization, menu planning, marketing expertise, nutrition and evaluation.

#### **REAL ESTATE W-227**

DMK-3502      **REAL ESTATE—66 hrs. .... 6.6 CEU's**  
This course will cover the many facts of the real estate business. Topics to be covered are sales, promotions, contracts, legal aspects, as well as other relevant subjects.

#### **HEALTH AND SAFETY**

##### **AMBULANCE ATTENDANT W-330**

EMT-3028      **EMERGENCY MEDICAL TECHNICIAN—120 hrs. .... 12.9 CEU's**  
This class is designed for ambulance attendants and any others who are interested. Classes of this nature are necessary for people who deal with emergency situations. Seventy-one hours are spent in class and ten hours are spent working in an emergency room.

##### **NURSES AIDE W-337**

NUR-3018      **LAMAZE—24 hrs. .... 2.4 CEU's**  
Lamaze is a course designed for prospective parents who are interested in natural childbirth.

NUR-3023      **NURSES ASSISTANT—110 hrs. .... 11.0 CEU's**  
This course is designed in such a manner that after its completion students will be able to qualify for hospital positions as nurses aides.

#### **HOME ECONOMICS**

##### **CLOTHING AND TEXTILES W-541**

HEC-3103      **SEWING I—33 hrs. .... 3.3 CEU's**  
This course offers the basic techniques in clothing construction such as taking measurements, finding the correct figure type, choosing the pattern, buying materials on the market today, altering patterns, preparing and constructing garments.



- HEC-3104 SEWING II—33 hrs. .... 3.3 CEU's  
This sewing class is the second in a series of courses to train women in correct sewing techniques.
- HEC-3101 SEWING III—33 hrs..... 3.3 CEU's  
Sewing III is designed as a general sewing class which deals with the basic techniques of tailoring, which includes establishing firmness of shape and precision in fit in a tailored garment.
- HEC-3106 TAILORING—33 hrs. .... 3.3 CEU's  
Tailoring is the construction of detailed clothes such as suits, coats, dresses and formals.
- HEC-3114 SEWING WITH KNITS—33 hrs. .... 3.3 CEU's  
Instruction for sewing knit fabrics includes measuring a pattern, cutting out garments, construction of garments and matching stripes. Suggestions will be given on construction of women's slacks, and construction of men's slacks.
- HEC-3105 CROCHETING—22 hrs. .... 2.2 CEU's  
In this course the student learns the different stitches and their abbreviations, how to read a pattern and how to regulate stitches. They also learn to increase and decrease stitches where needed.
- HEC-3109 KNITTING—22 hrs. .... 2.2 CEU's  
This course is designed to increase one's knowledge of stitches and procedures used in hand knitting. Abbreviations, symbols, terms, and types of yarn used in knitting are also discussed.

#### FOOD PREPARATION W-542

- HEC-3203 CAKE DECORATING I—22 hrs. .... 2.2 CEU's  
This class deals with the basic techniques of beginning cake decorating. Emphasis is placed on learning a variety of flowers, a few simple borders, and proper assembly of a cake. The last night of class groups of 4-6 students assemble a two-tier wedding cake.
- HEC-3203 CAKE DECORATING II—22 hrs. .... 2.2 CEU's  
Cake Decorating II is a continuation of basic cake decorating. Skills covered include more elaborate borders, the use of meringue icing, more flowers, and the construction of a three-tier wedding cake by each student.

#### INTERIOR DESIGN AND DECORATING W-545

- HEC-3304 FLOWER ARRANGING—33 hrs..... 3.3 CEU's  
Flower arranging is the study and practice of art forms and principles of flower arranging. It includes the use of flowers, containers, accessories and arrangements for special occasions.
- HEC-3305 INTERIOR DESIGN—33 hrs. .... 3.3 CEU's  
The aim of this class is to inform persons in the art of decorating houses or apartments. A study is made of house plans, carpeting, draperies and accessories. Suggestions are given for the selection of items to give a room or house a new look.

OFFICE

ACCOUNTING/BOOKKEEPING W-750

- BUS-3002      BOOKKEEPING—44 hrs. .... 4.4 CEU's  
This course is for the person who has had no previous experience in bookkeeping. Instruction will cover the proper method of keeping records, including journalizing, posting, trial balance, and statements.

GENERAL CLERICAL W-753

- BUS-3204      MEDICAL OFFICE ASSISTANT—114 hrs. .... 11.4 CEU's  
This class teaches medical terms and correct procedures of doing the paper work that a medical office assistant comes in contact with. After the completion of this course one can qualify for work as a medical secretary.

SECRETARIAL AND RELATED W-754

- BUS-3403      BASIC SHORTHAND—44 hrs. .... 4.4 CEU's  
This is a course in fundamental procedures and basic instruction for shorthand outlines. Instruction will be given on all outlines used in shorthand.
- BUS-3404      SHORTHAND II—44 hrs. .... 4.4 CEU's  
This class is designed for students who have mastered the fundamentals of shorthand and who are interested in gaining speed in writing and transcribing.

TYPING AND RELATED W-758

- BUS-3502      TYPING I—44 hrs. .... 4.4 CEU's  
Typing I is an introduction to the touch typewriting system. Instruction will emphasize correct typing techniques, mastery of the keyboard, simple business correspondence, tabulation and manuscripts.
- BUS-3503      TYPING II—44 hrs. .... 4.4 CEU's  
This class will place emphasis on speed and accuracy with further mastery of correct typewriting techniques.

PERSONAL IMPROVEMENT W-762

- BUS-3603      PARENT EFFECTIVENESS TRAINING—24 hrs..... 2.4 CEU's  
Parents are given training in forms of verbal communication that are designed in helping their children overcome their personal problems. They are also given skill training in specific methods of preventing conflicts between themselves and their children. Parents are taught the hazards and harmful effects of using the "win-lose" method of conflict resolution.

TRADES AND INDUSTRY

AIR CONDITIONING W-970

- AHR-3001      REFRIGERATION AND AIR  
CONDITIONING—66 hrs. .... 6.6 CEU's  
This course is a study of the operation of refrigerators and air conditioners, which will enable an individual to make repairs. Basic electrical principles and mechanical difficulties are emphasized.



**BLUEPRINT READING W-972**

- BPR-3001 BLUEPRINT READING—33 hrs.** ..... 3.3 CEU's  
Students in this course will be introduced to the principles of interpreting blueprints and trade specifications that are common to the building trades.

**ELECTRICAL CONSTRUCTION W-984**

- ELC-3002 RESIDENTIAL WIRING—33 hrs.** ..... 3.3 CEU's  
This course is designed to teach the fundamental practices of residential, commercial, and industrial wiring.

**MASONRY W-975**

- MAS-3001 BRICKLAYING—66 hrs.** ..... 6.6 CEU's  
This will be an introductory course to the art and skill of bricklaying. Topics to be covered include laying straight walls, fireplaces, lattice work, and corners.

**METALWORKING W-980**

- WLD-3003 BASIC WELDING—33 hrs.** ..... 3.3 CEU's  
This course is designed as an introduction to the art of welding. Students take a brief look at all methods of welding without too much emphasis on any one type.
- WLD-3004 ARC WELDING—33 hrs.** ..... 3.3 CEU's  
This course is the study of the arc welding process, welding machines and accessories, types of metals and identification, and additional information related to the welding process.

**SMALL ENGINE REPAIR AND SERVICES W-986**

- AUT-3501 SMALL ENGINE REPAIR—33 hrs.** ..... 3.3 CEU's  
A practical course in the repair of small air-cooled gasoline engines such as those found on lawn mowers, tillers, or minibikes.

**WOODWORKING OCCUPATIONS W-988**

- WWK 3005 WOODWORKING I—33 hrs.** ..... 3.3 CEU's  
This course is designed to help the woodworking enthusiast in the use, care, and safe practice of basic hand and power tools.
- WWK-3004 WOODCARVING—33 hrs.** ..... 3.3 CEU's  
This course is designed to teach the techniques of woodcarving. Students learn the correct tools to use, and the types of wood to use for whittling and for good carving.

**MANAGEMENT DEVELOPMENT PROGRAMS**

Courses offered in this program are designed to exert personal qualities of leadership and supervisory competencies. The purpose of each course is to offer practical applications to present needs of the company.

Certificates are awarded when a person satisfactorily completes the course and attends 80% of the class meetings. Upon completion of 160 hours a diploma is awarded. Some of the courses which are available are listed below.

## MANAGEMENT DEVELOPMENT PROGRAM W-979

MDP-28 hrs. PRE-SUPERVISORY TRAINING (PST).....2.8 CEU's

Pre-Supervisory Training is designed to prepare employees who are being considered for supervisory positions for the level of work which they will be expected to perform. Some topics covered are personnel relations, organizations, and job responsibility.

MDP-44-46 hrs. PRINCIPLES OF SUPERVISION .....4.4-4.6 CEU's

This course is designed to deal with the basic and general principles of effective supervision techniques. The course is broken down into seven distinct parts. Some of these include fundamentals of supervision, communications, how to train employees and job evaluation.

MDP-10 hrs. JOB RELATIONS ..... 1.0 CEU's

The Job Relations course is concerned with the fundamentals of human relations, bases for decision making and taking preventive action.

MDP-18-20 hrs. HUMAN RELATIONS ..... 1.8-2.0 CEU's

This course emphasizes the development of the science of Humanics. Topics to be covered will include machines and the human element, the personal needs that stimulate behavior, leadership, supervision, and techniques for handling people.

MDP-22 hrs. ART OF MOTIVATING PEOPLE ..... 2.2 CEU's

This course is designed to motivate employees in relation to production. Emphasis will be placed on specific problems in the area of motivation.

MDP-22 hrs. ECONOMICS IN BUSINESS AND  
INDUSTRY ..... 2.2 CEU's

This course is designed to give supervisors a better understanding of the American Free Enterprise System and how it operates. Included in this course are the five basic principles of capitalism, the function of government and its responsibility to the people.

MDP-22 hrs. EFFECTIVE COMMUNICATIONS..... 2.2 CEU's

This course places emphasis on clear and forceful oral, written, and implied communication. It gives supervisors an opportunity to improve their effectiveness in day-to-day communications with employees.

MDP-22 hrs. EFFECTIVE WRITING ..... 2.2 CEU's

Effective writing is designed to help foremen and supervisors improve their writing skills in reports, letters and memoranda which are necessary in daily operations.

MDP-15 hrs. EFFECTIVE SPEAKING..... 1.5 CEU's

Emphasis in this course is placed on the theory and practice of the art of self expression. A guide is provided for the supervisor to follow in helping him overcome fear and self-consciousness when addressing a group.

MDP-20 hrs. SPEED READING ..... 2.0 CEU's

This course is designed to broaden the span of perception and recognition, and to increase the speed and comprehension in reading for those in business and industry.

MDP-10 hrs. JOB METHODS ..... 1.0 CEU's

This course is set up in five two hour sessions. Emphasis is placed on the importance of finding more efficient ways of completing tasks. Each



participant is given a chance to study and submit a proposed method improvement project.

MDP-15 hrs. INSTRUCTOR TRAINING ..... 1.5 CEU's

This course is designed to provide the future supervisor-instructor with an approved method of instruction based on the basic principles of learning, which will enable him to teach others the related technology or manipulative skills of his trade.

MDP-22 hrs. INDUSTRIAL SAFETY AND ACCIDENT  
PREVENTION ..... 2.2 CEU's

This course provides the supervisor with a systematic approach to a better understanding of safety and accident prevention problems. Special emphasis is given to preventive safety measures and understanding the causes of accidents and injuries.

MDP-10 hrs. INDUSTRIAL FIRST AID ..... 1.0 CEU's

The aim of this course is to give the basics of first aid techniques to supervisors who will be confronted with injuries from accidents likely to occur in the work area. Also covered is factual information for the temporary treatment of sudden illnesses, attacks, and seizures on the job.

MDP-40 hrs. SUPERVISION IN HOSPITALS ..... 4.0 CEU's

This is a training course similar to MDP-1, which has been developed specifically for hospital supervisors. This course covers supervisory areas of human relations, leadership, job methods, housekeeping, and training subordinates.

MDP-10-12 hrs. LABOR LAWS ..... 1.0-1.2 CEU's

This is an introductory course for supervisors to introduce them to the important labor laws so that they may know the legal responsibilities of supervisors and what legal protection is available to business and its employees.

MDP-12 hrs. EMPLOYEE EVALUATION AND  
INTERVIEWING ..... 1.2 CEU's

This course provides fundamental information and basic guides for setting up and using a sound employee evaluation program in relation to what is expected of the supervisor.

MDP-12 hrs. JOB INSTRUCTION TRAINING ..... 1.2 CEU's

This course covers such points as how to get thorough analysis of the job to be taught, how to develop skills in the art of teaching, an understanding of the individual as a learner, and an appreciation of the employee's part in the organization.

### NEW AND EXPANDING INDUSTRIES

New and Expanding Industry Training is primarily concerned with the development and administration of programs designed for the purpose of training new employees. This institution, in cooperation with the Industrial Service Division of the State Department of Community Colleges, will design and administer a special program for training the production manpower required by any new or expanding industry creating new job opportunities.

**FIRE SERVICE TRAINING**

Area fire schools are held to train personnel about techniques and use of new equipment. Classes are held at the municipal and volunteer departments. Other courses are planned upon request. Fire service classes include the following:

**FIREMANSHIP W-982**

- FIP-42 hrs.     **INTRODUCTION TO FIREFIGHTING** ..... 4.2 CEU's  
This course is designed for use where firemen must be trained for service as quickly as possible and for departments that have been active not more than two years, and have had no formal training. Topics can be arranged according to the needs established by the fire chief and instructor.
- FIP-9 hrs.     **FORCIBLE ENTRY** ..... .9 CEU's  
Forcible entry means the opening of or the breaking through an enclosure that cannot be opened by conventional means. This course includes breaking a lock, prying open a door or window, and opening floors and roofs.
- FIP-6 hrs.     **ROPE PRACTICES** ..... .6 CEU's  
Rope work involves the teaching of all the knots and hitches necessary for hoisting tools, ladders, hoses, extinguishers, and for the splicing, care and storage of lifelines and handlines.
- FIP-9 hrs.     **PORTABLE FIRE EXTINGUISHERS** ..... .9 CEU's  
This course is designed to discuss techniques in the proper selection, use and operation of extinguishers to safeguard life and property. It also trains one to be able to select, use and recommend fire extinguishers that are properly suited for the condition that may exist.
- FIP-9 hrs.     **LADDER PRACTICES** ..... .9CEU's  
Emphasis in this course is placed on team work and smooth continuous movements which are essential to develop speed and avoid injury. The course incorporates ladder information and practices in type, design and construction, methods and techniques of handling ladders and inspection and care of ladders.
- FIP-9 hrs.     **SALVAGE AND OVERHAUL PRACTICES** ..... .9 CEU's  
This course is designed to present approved techniques in the use and care of salvage equipment used to reduce property damage during any emergency. Overhaul practices cover approved techniques of operation and procedures by which these conditions can be handled.
- FIP-12 hrs.     **FIRE STREAM PRACTICES** ..... 1.2 CEU's  
This course covers information on the efficient service of pumps, hoses, and nozzles. Also covered are specific fire stream requirements and methods of calculating fire streams.
- FIP-12 hrs.     **FIRE APPARATUS PRACTICES** ..... 1.2 CEU's  
This course deals with the proper care and operating practices of motorized fire apparatus. Some topics included are fire apparatus, requirements, special mechanical features and functional equipment (pumpers and aerial ladders), and caring for fire apparatus.



**FIP-9 hrs. VENTILATION ..... .9 CEU's**

This course is designed to aid one's understanding of what happens inside a building when it fills with smoke from a smouldering fire, and what is to happen if the condition is handled properly.

**FIP-12 hrs. RESCUE PRACTICES ..... 1.2 CEU's**

Rescue work is an important function of the fire service. This guide will describe good practices in the careful removal of people from hazards due to fire, explosions, storms, earthquakes, and any other occurrence that seriously disrupts normal conditions.

**FIP-9 hrs. PROTECTIVE BREATHING EQUIPMENT..... 9 CEU's**

The purpose of this course is to increase one's knowledge of the operation of protective breathing equipment, and the correct method of wearing it.

**FIP-12 hrs. FIRE FIGHTING PROCEDURES..... 1.2 CEU's**

This outline discusses ways and means of applying a plan to a course of action, and to provide a system by which firefighting procedures may be selected, applied, and improved upon to meet the needs of a local situation.

**FIP-no minimum FIRE BRIGADE TRAINING FOR INDUSTRY..**

no minimum CEU's

In order to avoid major industrial plant fire losses each plant should maintain a well-trained fire brigade. Each brigade should be ready to meet the needs of the plant which it serves. These brigades do not replace the fire departments but they can and do play a big part in the initial steps taken to prevent costly fires.

**FIRST AID**

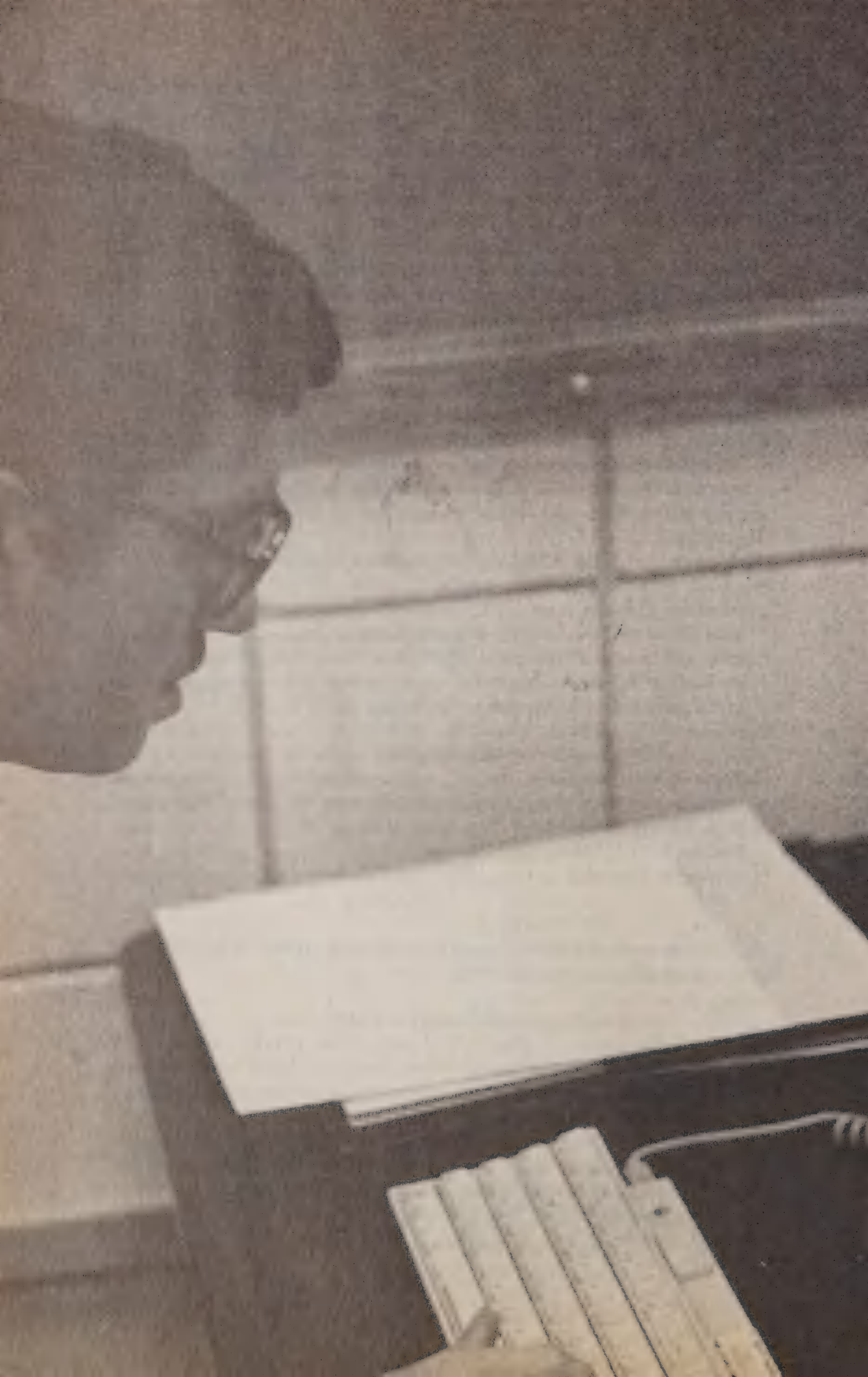
The following is a list of the courses taught in first aid. Upon completion of any one of these courses you are qualified for Red Cross Certification.

Multi-Media First Aid	12 hrs.
Standard First Aid	18 hrs.
Advanced First Aid	52 hrs.
CPR	9-12 hrs.

These courses and others are also designed to meet the Occupational Safety and Health Act requirements.

**LAW ENFORCEMENT TRAINING**

Mitchell Community College's Continuing Education Division conducts a Police Recruit School under the Minimum Standards Act of North Carolina. In addition, courses are planned in cooperation with local law enforcement agencies to upgrade their personnel.





## CURRICULUM COURSE DESCRIPTIONS

Following the course name and number appears a numerical code which should be interpreted as follows: first number indicates the number of credit hours; the second number indicates the number of lecture hours; the third number indicates the number of laboratory hours; and the fourth number indicates the number of shop practice hours.

### AIR CONDITIONING, HEATING, AND REFRIGERATION

**AHR 1101     AUTOMOTIVE AIR CONDITIONING ..... 3 (2-0-3)**

General introduction to the principles of refrigeration; study of the assembly of the components and connections necessary in the mechanisms, the methods of operation, and control; proper handling of refrigerants in charging the system. Use of testing equipment in diagnosing trouble, conducting efficiency tests and general maintenance work. Prerequisite: PHY 1101.

**AHR 1102     STEAM AND HOT WATER HEATING AND  
                 COOLING SYSTEMS..... 4 (2-0-6)**

This is a study of the science of heating and/or cooling through the use of chilled and/or hot water or steam. The course gives a basic coverage of the selection of heat distribution units, water chillers, compression tanks, zone valves, zone controls, relief valves, flow control, pressure reducing valves, boiler fittings, feed water accessories, steam accessories, combustion accessories, draft control, water treatment, boiler operation and boiler room safety. Prerequisite: AHR 1121, 1115, 1111, 1112.

**AHR 1110     INDUSTRIAL HEATING..... 4 (3-0-3)**

This is a basic study of the science of heating through the use of circulating hot water and steam. There will be an introduction to both gas- and oil-fired boilers. The course also covers boiler fittings, feed water accessories, steam accessories, combustion accessories, draft control, water treatment, boiler operation and boiler room safety. Prerequisites: ELC 1104, ELN 1118.

**AHR 1111     AUTOMATIC CONTROLS I ..... 4 (2-0-6)**

A step-by-step introduction to the foundation necessary for advanced study in controls. Topics include nature of electricity, rules governing electricity, inductive and capacitive circuits, principles of motor operation, power, transformer principles, relay principles, analyzing control circuits.

**AHR 1112     AUTOMATIC CONTROLS II ..... 2 (1-0-3)**

The use and care of test instruments and equipment used in servicing electrical apparatus for air conditioning and refrigeration installations. Electrical principles and procedures for troubleshooting of the various electrical services used in air conditioning, heating and refrigeration equipment. Included will be transformers, various types of motors and starting devices, switches, protective devices and wiring. Prerequisites: AHR 1111, AHR 1121.

- AHR 1113      AUTOMATIC CONTROLS III..... 2 (1-0-3)**  
Types of automatic controls used in air conditioning and heating. Included in the course will be electrical circuits, capacitors, zone controls, heating controls and cooling controls. Prerequisites: AHR 1112, AHR 1115, AHR 1122.
- AHR 1115      FUNDAMENTALS OF HEATING ..... 4 (2-0-6)**  
An introduction to the fundamentals of heating and heat transfer related to various types of heating systems. The use and care of tools, using instruments to measure combustion efficiencies, and installing equipment and ductwork to make up a heating system are covered. Also introduced are comfort surveys, heat loss and gain, equipment selection and maintenance, solar heating and heat distribution systems. Prerequisites: AHR 1121, AHR 1111 or permission of instructor.
- AHR 1121      PRINCIPLES OF REFRIGERATION ..... 4 (2-0-6)**  
An introduction to the principles of refrigeration, terminology, the use and care of tools and equipment, and the identification and the function of the component parts of a system. Other topics to be included will be the basic laws of refrigeration; characteristics and construction of valves, fittings, and basic control. Practical work includes tube bending, flaring and soldering. Standard procedures and safety measures are stressed in the use of special refrigeration service equipment and the handling of refrigerants.
- AHR 1122      DOMESTIC AND COMMERCIAL REFRIGERATION..**  
**4 (2-0-6)**  
Domestic refrigeration servicing of conventional, hermetic, and absorption systems. Cabinet care, controls, and system maintenance in domestic refrigerators, freezers, and window air conditioning units are stressed. Commercial refrigeration servicing of display cabinets, walk-in cooler and freezer units, and mobile refrigeration systems are studied. The use of manufacturer's catalogs in sizing and matching system components and a study of control refrigerants, servicing methods is made. The American Standard Safety Code for Refrigeration is studied and its principles practiced. Prerequisites: AHR 1121, AHR 1111 or permission of instructor.
- AHR 1123      PRINCIPLES OF AIR CONDITIONING ..... 4 (2-0-6)**  
Work includes the selection of various heating, cooling, and ventilating systems, investigation and control of factors affecting air cleaning, movement, temperature, and humidity. Use is made of psychrometric charts in determining needs to produce optimum temperature and humidity control. Commercial air conditioning equipment is assembled and tested. Practical sizing and balancing of ductwork is performed as needed. Prerequisites: AHR 1122, AHR 1112, AHR 1115.
- AHR 1124      AIR CONDITIONING, HEATING, AND**  
**REFRIGERATION SERVICING..... 4 (2-0-6)**  
Emphasis is placed on the installation, maintenance, and servicing of equipment used in the cleaning, changing, humidification and temperature control of air in an air conditioned space. Lab work involves burner operation, controls, testing and adjusting of air conditioning and refrigeration equipment, and location and correction of equipment failure. Prerequisites: AHR 1123, AHR 1113.



**AHR 1125 HEAT LOSS AND HEAT GAIN CALCULATIONS.... 3 (3-0-0)**

All-season air conditioning requirements, heat loss and heat gain calculations, heat transfer, and comfort students psychrometrics, humidifiers, electronic air cleaners, and heat pump principles of operation.

**AHR 1126 ALL YEAR COMFORT SYSTEMS ..... 4 (2-0-6)**

Auxiliary equipment used in conjunction with refrigeration systems to provide both heating and cooling for "all year" comfort will be studied and set up in the laboratory. Included will be oil fired systems, gas fired systems, water circulating systems, and electric-resistance systems. Installation of heat pumps will be studied along with servicing techniques. Reversing valves, special types of thermostatic expansion valves, systems of de-icing coils, and electric wiring and controls are included in the study. Prerequisites: AHR 1123, AHR 1113.

**ANTHROPOLOGY****ANT 251 PHYSICAL AND CULTURAL ANTHROPOLOGY 5 (5-0-0)**

The factors which make for variation in living things are examined along with a thorough study of genetics. The origin of man is traced in detail as much as existing fossil finds will permit. The course covers about a two million year span of time.

**ART****ART 150 BASIC DESIGN ..... 3 (0-6-0)**

Upon completion of this course, the student will be able to identify and use the principles and elements of design as they relate to the two-dimensional surface. Flat pattern development, pictorial composition, depiction of special illusion, and value analysis will have been studied.

**ART 151 DRAWING I ..... 3 (0-6-0)**

Upon completion of this course, the student should be able to identify problems and possible graphic solutions of representing visual experience on the two-dimensional surface. The student will have explored a variety of material including pencil, pen and ink, conte, and charcoal and will have employed various techniques with an emphasis upon utilizing these materials and techniques as a means of personal expression.

**ART 152 DRAWING II ..... 3 (0-6-0)**

Upon completion of this course, the student will have been introduced to the study of perspective and other systemized methods of rendering the illusion of form and space. The student will be able to apply elements of good pictorial composition and will have continued to develop technical competence in the use of a variety of material and techniques. Prerequisite: ART 151 or permission of instructor.

**ART 155 SERIGRAPHY..... 3 (0-6-0)**

Students will demonstrate an understanding of silk screening as a fine art by designing and producing editions of prints which use various techniques such as paper, knife-cut, and photopositive stencils with emphasis on layout and color separation.

**ART 156 CRAFTS ..... 3 (0-6-0)**

Upon completion of this course, the student should be able to design, construct, and exhibit fiber, wood, and glass craft projects.

- ART 157 CERAMICS I**..... 3 (0-6-0)  
 Upon completion of this course, the student should be able to (1) design and produce projects by the pinch pot, coil, slab, and potter's wheel methods; (2) utilize various glaze techniques.
- ART 158 CERAMICS II**..... 3 (0-6-0)  
 Upon completion of this course, the student should be able to (1) design and produce ceramic projects building on the foundation of skills acquired in Ceramics I, (2) construct one major sculpture project which will combine at least one additional material with the clay, (3) keep an individual test tile record of glaze experiments. Prerequisite: ART 157 or permission of instructor.
- ART 159 CERAMICS III** ..... 3 (0-6-0)  
 Upon completion of this course, the student should be able to (1) design and produce projects building on the foundation of skills acquired in Ceramics I and II; (2) weigh, mix, and apply glaze formulas to ceramics projects; (3) describe how to load, fire, and unload electric kiln. Prerequisite: ART 158 or permission of instructor.
- ART 160 WATERCOLOR I** ..... 3 (0-6-0)  
 Through exercises in technical methods and various approaches to idea generation, the student will be able to produce watercolor paintings which demonstrate a mastery of this medium.
- ART 161 WATERCOLOR II** ..... 3 (0-6-0)  
 This course is designed to allow further experience and research in the medium of watercolor. Exercises in composition, expression, and color theory will be explored as well as intensive practice in directional interests in content and subject matter. Prerequisite ART 160 or permission of instructor.
- ART 162 WATERCOLOR III** ..... 3 (0-6-0)  
 An advanced studio course to further refine the student's skill with the particular medium. Nature studies and paintings from imagination will be considered as the main areas of concentration. Ideas concerning product, presentation and exhibition will be explored. Prerequisite: ART 161 or permission of instructor.
- ART 163 BASIC PHOTOGRAPHY** ..... 3 (0-6-0)  
 The student will be introduced to the Basics of Photography, including use of the camera, composition, and subject matter. Students must provide 35 mm camera.
- ART 164 PHOTOGRAPHY II** ..... 3 (0-6-0)  
 This course is designed around the photographic darkroom. There will be some advanced lighting techniques as well as work with special effects in the darkroom and with the camera. Prerequisite: ART 163 or Portfolio.
- ART 180 ART APPRECIATION** ..... 5 (5-0-0)  
 A survey of ideas and stylistic trends from cave painting to modern times. Painting, sculpture and architecture of each major period will be discussed. The course is designed to meet state requirements for public school teachers and is open to the general college student.



- ART 182 AESTHETICS—INTRODUCTION TO ART** ..... 5 (5-0-0)  
 This is an art/humanities elective course dealing with philosophies of meaning in historical and contemporary art forms. The relationships between information and illumination and between intellect and imagination will be discussed in a seminar manner. Students will be responsible for researching and presenting information and participating in class discussions.
- ART 253 INTRODUCTION TO PRINTMAKING** ..... 3 (0-6-0)  
 This course is designed for general college students with little or no experience in the field who wish to enroll in a course of a fairly specialized nature. A wide variety of print media is introduced through a series of lectures, demonstrations, and field trips. Studio work emphasizes relief printing techniques, etching, and silkscreen printing. Prerequisite: ART 151 or permission of instructor.
- ART 256 PAINTING I** ..... 3 (0-6-0)  
 Upon completion of this course, the student will be able to select tools and materials for painting and will be able to demonstrate a knowledge of the elements of art and the principles of design as they apply to the production of painting.
- ART 257 PAINTING II** ..... 3 (0-6-0)  
 The student will continue the analysis and production of good pictorial composition and will continue experimentation in a variety of painting media. Prerequisite: ART 256 or permission of instructor.
- ART 258 PAINTING III** ..... 3 (0-6-0)  
 The student will give special attention to painting as a means of personal expression and will continue to identify and solve the problems of pictorial production such as color, form, and special illusion. The student will continue technical experimentation. Prerequisite: ART 257 or permission of instructor.
- ART 259 SCULPTURE I** ..... 3 (0-6-0)  
 In this course the student will experiment with a variety of materials by utilizing the constructive, the additive, and the subtractive processes of sculpture.
- ART 260 SCULPTURE II** ..... 3 (0-6-0)  
 The student will continue to experiment with a variety of materials and methods of sculpture. There will be an emphasis on carving in wood and stone. Prerequisite: ART 259 or permission of instructor.
- ART 261 SCULPTURE III** ..... 3 (0-6-0)  
 Sculpture III is an advanced studio course designed with the student in mind. Emphasis is on media, tools, process or on concept gained from experience and research. Statement or expressive quality of sculpture will be expressed. Prerequisite: ART 260 or permission of instructor.
- ART 280 ANCIENT ART HISTORY** ..... 5 (5-0-0)  
 An in-depth study of the evolution of art with specific emphasis on the art of Ancient Egypt and Ancient Greece. Painting, sculpture and architecture are discussed. Open to general college student.

- ART 281      RENAISSANCE ART HISTORY ..... 5 (5-0-0)  
An in-depth study of the evolution of 15th and 16th Century art with emphasis on the art from Giette to Michaelangelo. Painting, sculpture, and architecture are discussed.
- ART 282      MODERN ART HISTORY ..... 5 (5-0-0)  
An in-depth study of the evolution of Modern Art with emphasis on the period from J. O. David to Andy Warhol. Painting, sculpture and architecture are discussed.
- ART 283      COLOR THEORY ..... 3 (0-6-0)  
The student will continue the analysis and implementation of the principles and elements of design with an emphasis upon color theory.
- ART 285      INDEPENDENT STUDIO ..... 3 (0-6-0)  
A course designed to permit the student to work beyond the limits of the regular sequence of courses in particular area of art. As the course title indicates, the student will be working independently on self-determined objectives utilizing the resources of the Art Department. One independent studio may be taken per area. Prerequisite: Completed sequence of art courses in the area of proposed independent study.
- ART 286      INDEPENDENT STUDIO ..... 3 (0-6-0)  
A course designed to permit the student to work beyond the limits of the regular sequence of courses in a particular area of art. As the course title indicates, the student will be working independently on self-determined objectives utilizing the resources of the Art Department. One independent studio may be taken per area. Prerequisite: Completed sequence of art courses in the area of proposed independent study.
- ART 287      INDEPENDENT STUDIO ..... 3 (0-6-0)  
A course designed to permit the student to work beyond the limits of the regular sequence of courses in a particular area of art. As the course title indicates, the student will be working independently on self-determined objectives utilizing the resources of the Art Department. One independent studio may be taken per area. Prerequisite: Completed sequence of art courses in the area of proposed independent study.

**AUTOMOTIVE MECHANICS**

- PME 151      AUTOMOTIVE FUNDAMENTALS FOR CONSUMERS..  
3 (3-0-0)  
This course is designed to help you prolong the life of your automobile. The topics discussed include the following: the engine and companion systems, preventive maintenance, basic tune-up instructions, and trouble-shooting.
- PME 1101      INTERNAL COMBUSTION ENGINE ..... 4 (2-0-6)  
Development of a thorough knowledge and ability in using, maintaining, and storing the various hand tools and measuring devices needed in engine repair work. Study of the construction and operation of components of internal combustion engines. Testing of engine performance; servicing and maintenance of pistons, valves, cams and camshafts, fuel and exhaust systems, cooling systems; proper lubrication; and methods of diagnosing and repairing. Development of ability to read and inter-



pret blueprints, charts, instruction and service manuals, and wiring diagrams.

**PME 1102 ENGINE IGNITION AND FUEL SYSTEMS ..... 4 (2-0-6)**

A thorough study of the electrical and fuel systems of the automobile. Battery cranking mechanism, generator, ignition, accessories and wiring; fuel pumps, carburetors, and fuel injectors. Characteristics of fuels, types of fuel systems, special tools, and testing equipment for the fuel and electrical system. Interpretation and reading of schematic prints and diagrams. Making sketches of electrical wiring and fuelsystem components for automotive engines and other internal combustion engines. Prerequisite: PME 1101 or permission of instructor.

**PME 1110 EMISSION CONTROL SYSTEMS ..... 2 (1-0-3)**

A study of operating principles which apply to control systems currently in use and emission control systems that effectively reduce the volume of air pollutants.

**PME 1113 BRAKE SYSTEMS ..... 2 (1-0-3)**

A study of the principle of operation of modern drum and disc braking systems. Diagnosis, component replacement and total system overhaul are included.

**PME 1116 FRONT END ALIGNMENT AND WHEEL BALANCING  
2 (1-0-3)**

Principles and functions of front-end alignment and wheel balancing on all types of automobiles and light trucks.

**PME 1120 AUTOMOTIVE ELECTRICAL SYSTEMS ..... 2 (1-0-3)**

The course will cover diagrams, sketches, charts, wiring codes, and symbols for automobiles. Analysis charts will be studied to troubleshoot electrical problems with wiring, and electronic devices on new model automobiles.

**PME 1121 FRONT SUSPENSION, ALIGNMENT, AND POWER  
STEERING ..... 2 (1-0-3)**

Theory of operation, correct disassembly and mounting of all front suspension parts on various types of frames (car and light truck). A thorough understanding of the function and repair of steering gears (Power and standard), shock absorbers, springs, wheels and tires, pumps, rams, etc. is gained. Theory and application of steering geometry, correct diagnosis of problems and use of the alignment and balancing machines; analysis and correction of tire wearing problems, vibrations, hard steering, pulling, etc. is experienced.

**PME 1124 AUTOMOTIVE POWER TRAIN SYSTEMS..... 2 (1-0-3)**

Principles and functions of automotive power train systems: clutches, transmission gears, drive shaft assemblies, rear axles and differentials. Identification of troubles, servicing and repair.

**PME 1125 AUTOMOTIVE SERVICING ..... 4 (2-0-6)**

Emphasis is on the shop procedures necessary in "troubleshooting" of automotive systems, provides a full range of experiences in testing, adjusting, repairing, and replacing components. A close simulation to an actual automotive shop situation will be maintained. Prerequisite: PME 1102, PME 1123, AHR 1101.

- PME 1203 DIESEL ENGINE SERVICING** ..... 4 (2-0-6)  
 A thorough indepth knowledge of the diesel automobile engine is developed. Emphasis is on design, operation, disassembly, diagnosis and repair.
- PME 1205 DIESEL ENGINE FUEL SYSTEMS** ..... 3 (3-0-0)  
 Principles and operation of diesel fuel systems, diagnosis of problems, service and repair pertaining to cars and light duty trucks. GM, Bosh, VW diesel, Isuzu type of systems will be major systems covered.
- PME 1221 ADVANCED ELECTRICAL SYSTEMS** ..... 2 (1-0-3)  
 Detailed study in theory and construction of electronic controlled charging and ignition systems. Prerequisite: PME 1120 or Permission of instructor.
- PME 1224 AUTOMATIC TRANSMISSIONS**..... 5 (3-0-6)  
 This course is designed to provide a measure of depth in the understanding of automatic transmissions. Instruction includes classroom study, demonstrations, and student participation in disassembly, reassembly, and testing of selected transmissions. Special emphasis is placed on principles, function, construction, operation, servicing and "trouble-shooting" procedures and repair of various types.
- PME 1227 POWER ACCESSORIES**..... 5 (3-0-6)  
 Power accessories course will include power equipment added to cars and light trucks. All electrical components including power windows, roofs, trunk and safety devices, power seats, and electronic equipment for diesel-powered autos will be covered. Prerequisite: PME 1102, PME 1203, PME 1205, AHR 1101.
- PME 1232 FRONT END DRIVE TRAIN STEERING AND ALIGNMENT** ..... 2 (1-0-3)  
 Study of the new front-wheel drive train. Operation and repair of steering and alignment of rack and pinion system will be emphasized. Prerequisite: PME 1113, PME 1116, PME 1121, PME 1124.

### **BASIC LAW ENFORCEMENT**

- BLE 101 BASIC LAW ENFORCEMENT** .....24 (16-0-24)  
 See program description, which is the same as the course description. The course will contain 446 contact hours.

### **BIOLOGY**

- BIO 151 GENERAL BIOLOGY** ..... 4 (3-3-0)  
 A study of the basic biological principles included in both animal and plant kingdoms. Emphasis is placed upon live, taxonomy, the cell, cell divisions, cellular metabolism, photosynthesis, nucleic acids, and genetics.
- BIO 152 GENERAL BIOLOGY** ..... 4 (3-3-0)  
 A continuation of BIO 151. Included are a survey of the plant kingdom and ecological studies, including both plants and animals. Prerequisite: BIO 151.
- BIO 153 GENERAL BIOLOGY** ..... 4 (3-3-0)  
 A continuation of general biology. Included are a survey of the animal kingdom and the structure and function of man as one of the animals. Prerequisite: BIO 151.



- BIO 155 MAN AND HIS ENVIRONMENT** ..... 3 (3-0-0)  
 This course is an introduction to human ecology. Discussed are causes and possible solutions of problems such as over-population, air-water-food-noise pollution, pesticides, vanishing resources-wilderness-wildlife, atomic radiation, and urbanization. Films, guest speakers, five field trips, panel discussions and lectures are used.
- BIO 251 ANATOMY AND PHYSIOLOGY** ..... 4 (3-2-0)  
 A study of the anatomy and physiology of the human body with integration and homeostasis as leading factors. Emphasis is on the cell, tissues of the body, integumentary system, skeletal system, muscular system, and digestive system.
- BIO 252 ANATOMY AND PHYSIOLOGY** ..... 4 (3-2-0)  
 A continuation of BIO 251. The systems covered are the circulatory, respiratory, excretory, and reproductive. Prerequisite: BIO 251.
- BIO 253 ANATOMY AND PHYSIOLOGY** ..... 4 (3-2-0)  
 A continuation of BIO 252. The systems covered are the nervous, special senses, endocrine and immunological. Prerequisite: BIO 252.
- BIO 255—MICROBIOLOGY** ..... 5 (3-4-0)  
 Morphology, physiology, and methods of culture and control of bacteria, viruses, and related micro-organisms. The course includes pathogens and epidemiology of microbial diseases.

### **BUSINESS**

- BUS 120 MACHINE CALCULATIONS** ..... 4 (3-2-0)  
 A course to develop proficiency in the operation of the electronic calculator and in its use to solve business related problems. Also, hands-on experience will be provided on the IBM Personal Computer with instructions in word processing and spreadsheet software.
- BUS 122 FILING** ..... 3 (3-0-0)  
 A study of the fundamentals and theory of filing with special emphasis on alphabetic, geographic, subject, numeric, and other filing systems.
- BUS 124 RECORD KEEPING** ..... 3 (3-0-0)  
 The student will recognize and be able to apply the basic concepts of the single proprietorship. The student will develop skills which enable him to record and analyze business transactions in appropriate books of original entry, as well as classify and summarize such transactions in an income statement and balance sheet.
- BUS 125 OFFICE PROCEDURES** ..... 3 (3-0-0)  
 Efforts will be made to observe and direct students in developing those characteristics and personality traits which are essential in the modern business office. Training in office duties and procedures will be emphasized. Prerequisite: Ability to type or permission of instructor.
- BUS 126 OFFICE PROCEDURES** ..... 3 (3-0-0)  
 A continuation of BUS 125. This course presents a series of integrated office activities which emphasize the administrative aspects of secretarial work. Prerequisite: BUS 125 or permission of instructor.

- BUS 130 PRINCIPLES OF INDUSTRIAL MANAGEMENT 5 (5-0-0)**  
The basic managerial decisions; organizational structure including plant location, building requirements, and internal factory organization and problems of factory operation and control, planning, scheduling, routing factory production, stores control, labor control, purchasing, and cost control. Plant problems are utilized at lab experiments.
- BUS 133 INDUSTRIAL SAFETY ..... 5 (5-0-0)**  
Problems of accidents and fire in industry. Management and supervisory responsibility for fire and accident prevention. Additional topics cover accident reports and the supervisor; good housekeeping and fire prevention; machine guarding and personnel protective equipment; state industrial accident code and fire regulations, the first aid department and the line of supervisory responsibility; job instruction and safety instruction; company rules and enforcement; use of safety committees; insurance carrier and the Insurance Rating Bureau; and advertising and promoting a good safety and fire prevention program.
- BUS 134 PRINCIPLES OF SUPERVISION ..... 3 (3-0-0)**  
Introduces the basic responsibilities and duties of the supervisor and his relationship to superiors, subordinates and associates. Emphasis on securing an effective work force and the role of the supervisor. Methods of supervision are stressed.
- BUS 135 WORK MEASUREMENT..... 5 (5-0-0)**  
A study of the principles of work simplification including administration of job methods, improvement, motion study fundamentals, and time study techniques. Use of flow and process charts, multiple activity charts, operation charts, flow diagrams, and methods of evaluation are included topics.
- BUS 136 PROFESSIONAL DEVELOPMENT ..... 3 (3-0-0)**  
A study of the principles that will be of assistance in the understanding of inter-personal relations on the job. Motivation, feelings, and emotions are considered with particular reference to on-the-job problems.
- BUS 150 BUSINESS LAW ..... 3 (3-0-0)**  
A general course designed to acquaint the student with the subject of Business Law and to examine fully the subject of contracts.
- BUS 151 BUSINESS LAW ..... 3 (3-0-0)**  
A continuation of Business 150. Topics include the sale of goods, commercial paper, insurance, estate planning, court procedures, agency, and employment. Prerequisite: BUS 150 or permission of instructor.
- BUS 152 INTRODUCTION TO BUSINESS ..... 5 (5-0-0)**  
An introduction to the various areas of business available for concentrated investigation. The business environment, ownership forms, organization, marketing, and the physical factors of the business are examined. Also, personnel, stocks, bonds, insurance, accounting, business statistics, budgets, forecasting, and the legal environment of business are surveyed.
- BUS 153 TYPEWRITING ..... 3 (1-4-0)**  
Development of basic typewriting skills and principles and their application with emphasis on speed and accuracy.



- BUS 154 TYPEWRITING** ..... 3 (1-4-0)  
A continuation of Business 153, with emphasis on outlines, letter styles, and typing from draft copy. Prerequisites: BUS 153 or permission of instructor.
- BUS 155 TYPEWRITING** ..... 3 (1-4-0)  
A continuation of Business 154 which builds on the basic competency in keyboarding and formatting of business forms with emphasis on speed and accuracy. Prerequisite: BUS 154 or permission of the instructor.
- BUS 156 SHORTHAND**..... 4 (3-2-0)  
Mastery of the fundamentals of Gregg Shorthand theory and speed building. Prerequisite: Ability to type or permission of instructor.
- BUS 157 SHORTHAND**..... 4 (3-2-0)  
A continuation of the study of Gregg Shorthand theory and development of dictation and transcription skills. Prerequisite: BUS 156 or permission of instructor.
- BUS 158 SHORTHAND**..... 4 (3-2-0)  
Development and application of the principles of Gregg Shorthand theory, with emphasis on accuracy and speed. Prerequisite: BUS 157 or permission of instructor.
- BUS 161 ACCOUNTING PRINCIPLES** ..... 4 (3-2-0)  
The first quarter of accounting builds the basic foundation for further study. Topics included are the basic accounting structure, journals, ledgers, the completion of the cycle for a service and mercantile enterprise, receivables, payables, inventory methods, deferrals, accruals, practical problems and case studies.
- BUS 162 ACCOUNTING PRINCIPLES** ..... 4 (3-2-0)  
A continuation of BUS 161. Items covered are plant and intangible assets, internal control, payroll systems, concepts and principles, partnership, corporations, departments, branches, practical problems, and case studies. Prerequisite: BUS 161 or permission of instructor.
- BUS 163 ACCOUNTING PRINCIPLES** ..... 4 (3-2-0)  
A continuation of BUS 162. Topics are an introduction to cost accounting, budgetary control, income taxes, management concern for cost and revenue relationships, special analysis, special statements, practical problems and case studies. Prerequisite: BUS 162 or permission of the instructor.
- BUS 200 ACCOUNTING ON MICROCOMPUTERS** ..... 4 (3-2-0)  
A study of the application of General Ledger, Accounts Receivable, Accounts Payable, Payroll and Depreciation Systems on a microcomputer. No prior computer knowledge is required. Prerequisite: BUS 163 or permission of instructor.
- BUS 201 TYPEWRITING** ..... 3 (1-4-0)  
An expansion of the development of typewriting principles and skills and their application with emphasis on speed and accuracy. Prerequisite: One year of typewriting or permission of instructor.
- BUS 202 TYPEWRITING** ..... 3 (1-4-0)  
Business letter styles, legal papers, tabulation, business and accounting reports, manuscripts, and forms applicable to the business office are emphasized. Prerequisite: BUS 201 or permission of instructor.

- BUS 203     TYPEWRITING** ..... 3 (1-4-0)  
 Development of sustained production of forms used in the business office. Prerequisite: BUS 202 or permission of instructor.
- BUS 211     SHORTHAND AND TRANSCRIPTION** ..... 4 (3-2-0)  
 A review of Gregg Shorthand theory and the principles of English grammar with emphasis on the student's ability to take and transcribe correctly from familiar and unfamiliar dictation at varying rates of speed. Prerequisite: BUS 158 or permission of instructor.
- BUS 212     SHORTHAND DICTATION AND TRANSCRIPTION**..4 (3-2-0)  
 This course emphasizes speed, accuracy, vocabulary, and transcription abilities to enable the student to meet the requirements of the business office. Prerequisite: BUS 211 or permission of instructor.
- BUS 213     SHORTHAND DICTATION AND TRANSCRIPTION**..  
 4 (3-2-0)  
 A continuation of BUS 212. Prerequisite: BUS 212 or permission of instructor.
- BUS 215     WORD PROCESSING** ..... 4 (3-2-0)  
 A course designed to develop proficiency in office work which requires the use of transcribing units. The concepts of word processing are taught, and experience on the electronic typewriter is received. Prerequisite: Ability to type 50 words per minute or permission of the instructor.
- BUS 216     WORD PROCESSING** ..... 3 (1-4-0)  
 Instruction and hands-on experience on a dedicated word processor. Areas covered will be basic typing entries, editing, revising, formatting, merging, and document assembly. Prerequisite: BUS 155 or permission of instructor.
- BUS 220     BUSINESS COMMUNICATIONS**..... 3 3-0-0)  
 The study and the composition of business letters and other forms of communication. Prerequisite: Ability to type or permission of instructor.
- BUS 223     PRINCIPLES OF SELLING**..... 3 (3-0-0)  
 A study of the fundamentals of effective selling, qualifications and obligations of sales persons.
- BUS 224     BUSINESS MANAGEMENT** ..... 5 (5-0-0)  
 Principles of business management including overview of major functions of management, such as planning, staffing, controlling, and financing. Clarification of the decision-making function versus the operating function. Role of management in business—qualifications and requirements.
- BUS 225     PRINCIPLES OF MARKETING** ..... 5 (5-0-0)  
 A survey of the functions and problems involved with getting products moved from the producer to the consumer.
- BUS 228     CONSUMER FINANCE** ..... 3 (3-0-0)  
 This course is oriented toward personal financing as opposed to financing the business entity. Topics include budgets, insurance, credit procedures, personal investments, housing, real estate, retirement planning, and estate planning.



- BUS 229 BUSINESS FINANCE** ..... 3 (3-0-0)  
 Financing of business units, as individuals, partnerships, corporations, and trusts. Topics include short-term financing, long-term financing, financing federal, state, and local government and the factors affecting supply of funds, monetary and credit policies.
- BUS 230 QUALITY CONTROL** ..... 4 (3-2-0)  
 Principles and techniques of quality control and cost saving. Organization and procedure for efficient quality control. Functions, responsibilities, structure, costs reports, records, personnel and vendor-customer relationships in quality control. Sampling inspections, process control and tests of significance.
- BUS 232 LABOR ECONOMICS AND LABOR RELATIONS....** (5-0-0)  
 Emphasis is placed on the history of the labor movement in the United States; the development of methods and strategies by labor organizations and by management; the shift in the means of public control; and the factors of income and economic security.
- BUS 233 FOREMANSHIP SUPERVISION** ..... 3 (3-0-0)  
 The foreman's responsibility for planning, organizing, directing, controlling, and coordinating supervisory activities. It teaches the supervisor the basic functions of an organization and his responsibilities, policies and procedures, and rules and regulations.
- BUS 235 PRODUCTION PLANNING** ..... 5 (5-0-0)  
 Day-to-day plant direction; forecasting, product planning and control, scheduling, dispatching, routine and inventory control. Case histories are discussed in the classroom, and courses of corrective action are developed. Actual layouts are utilized for planning and control.
- BUS 238 BUSINESS INSURANCE** ..... 5 (5-0-0)  
 This course is an approach to the study of the principles of risk, risk management, and insuring techniques in the context of the managerial decision-making process. Topics include risk and the nature of insuring devices, life, health, retirement, property, and liability insuring devices; planning and integrating risk treatment programs, and insuring organizations and their functions.
- BUS 241 INTERMEDIATE ACCOUNTING** ..... 4 (3-2-0)  
 A review and expansion of accounting principles which includes, among other aspects, the balance sheet, income statement, earnings statement, fundamental processes of recording, cash and temporary investments, and analysis of working capital. Prerequisite: BUS 163 or permission of instructor.
- BUS 242 INTERMEDIATE ACCOUNTING** ..... 4 (3-2-0)  
 Additional study of intermediate accounting with emphasis on current liabilities, investments, plant and equipment, intangibles, and long-term liabilities. Prerequisite: BUS 241.
- BUS 243 INTERMEDIATE ACCOUNTING** ..... 4 (3-2-0)  
 A continuation of BUS 242 which includes study of paid-in capital upon corporate formation and subsequent to corporate formation, all aspects of retained earnings and the retained earnings statement, statements from incomplete records, errors, and financial statement analysis. Prerequisite: BUS 242.

- BUS 244 COST ACCOUNTING** ..... 4 (3-2-0)  
A study of the nature and purposes of cost accounting for direct labor, materials, and overhead; job cost, standard cost and principles and procedures; selling and distribution cost, budgets, and executive use of cost figures. Prerequisite: BUS 163 or permission of instructor.
- BUS 246 TAXES** ..... 4 (3-2-0)  
A study of the application of federal and state taxes to various businesses and business conditions, income taxes, payroll taxes, intangible taxes, capital gain taxes, sales and use taxes, excise taxes, and inheritance taxes. Prerequisite: BUS 161 or permission of instructor.
- BUS 248 AUDITING** ..... 4 (3-2-0)  
A study of conducting audits and investigations, setting up accounts based on audits, collecting data on working papers, arranging and systematizing the audit, and writing the audit report. Emphasis on detailed audits, internal auditing, and internal control. Prerequisite: BUS 163 or permission of instructor.
- BUS 1103 SMALL BUSINESS OPERATIONS**..... 3 (3-0-0)  
An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business, and employer-employee relations.





**CERAMICS**

- CER 101 CERAMIC MINERAL SYSTEMS**..... 4 (3-2-0)  
An introductory course covering geology and mineralogy terms, structures and classification. Laboratory work and field trips provide first-hand contact.
- CER 102 CERAMIC MATERIALS**..... 5 (3-4-0)  
An introduction to crystal structure and properties of clays and other ceramic materials, clay-water systems, deflocculation, particle size reduction, screening, weighing, blending, mold making, slip casting, extrusion and dry pressing.
- CER 103 CERAMIC PROCESSES** ..... 5 (3-4-0)  
Introduces principles and practices of ceramic forming, drying and firing, including psychometric charts and calculations.
- CER 104 COMBUSTION I** ..... 3 (2-2-0)  
An introductory course consisting of the fundamentals of combustion. Content includes the principles of combustion analysis and metering. Laboratory experiences correlate with lecture material. Prerequisites: CHM 161, CHM 110.
- CER 201 COMBUSTION II** ..... 4 (3-2-0)  
This course is a continuation of Combustion I and consists of lectures, laboratory work and scheduled plant trips. Course will cover fuel burning systems, burner equipment, refractory and heat transfer, controls, piping, and thermal dynamics. Prerequisite: CER 104.
- CER 203 STATISTICAL QUALITY CONTROL** ..... 4 (3-2-0)  
Develops the theory of quality control in manufacturing processes that result in good yield of product, profitable systems, and customer satisfaction. The organization of quality control departments, and role of the technician in quality control and the implementation of basic quality control methods are discussed. The use of statistical data to support quality control analysis is studied in the laboratory. Prerequisites: CHM 110, CHM 161, CER 202.
- CER 206 AUTOMATED CERAMIC PRODUCTION** ..... 3 (1-4-0)  
A series of visits to a variety of ceramic plants giving students insight into automated methods, processes, and procedures for producing ceramic products. Discussion and report writing are developed around each facility visited. Prerequisites: CER 102, CER 103, CER 202.
- CER 207 ASTM PROCEDURES**..... 4 (3-2-0)  
A lecture and laboratory course that covers the major segments of the ceramic industry, such as refractories, whitewares, glass and structural clay products. The manufacturing processes starting with raw material and ending with finished products are discussed. The ASTM testing programs for these various segments are performed in the laboratory and reports are submitted for grade. Prerequisites: CHM 110, CHM 161, CER 102, CER 103, CER 202.
- CER 208 PRODUCT ANALYSIS LABORATORY** ..... 3 (2-2-0)  
An introductory course, consisting of lecture and laboratory periods, on the use of precision equipment used for analysis, investigation and determination of material properties in the ceramic industries. Prerequisite: EGR 103.

- CER 209 SEMINAR IN INDUSTRIAL PROBLEMS** ..... 3 (3-0-0)  
 The exploration of a specific topic (or topics) that are pertinent to students in Structural Clay Products Technology. The topic or topics are studied by the participants in a group with a structured format.

### CHEMISTRY

- CHM 110 CHEMISTRY FOR CERAMICS** ..... 4 (3-2-0)  
 The second introductory course in chemical principles as applied to ceramic technology. Topics include chemical calculations, properties of liquids and solids, water solutions, electrolytes, chemical equilibrium, reactions, and organic chemistry related to fuels and fuel properties.
- CHM 161 GENERAL CHEMISTRY** ..... 4 (3-3-0)  
 A course designed to introduce a student to the fundamental concepts of chemistry. Topics of study include chemical symbols, formulas, atomic structure, periodic law, chemical bonding, the gaseous state, the kinetic molecular theory and chemical calculations.
- CHM 162 GENERAL CHEMISTRY** ..... 4 (3-3-0)  
 A continuation of CHM 161. Emphasis to be placed on the liquid and solid states, solutions, electrolytes, colloids, oxidation-reduction reactions, and chemical equilibrium. Prerequisite: CHM 161.
- CHM 163 GENERAL CHEMISTRY** ..... 4 (3-3-0)  
 A continuation of CHM 162. Emphasis to be placed on the study of thermodynamics, electrochemistry, solubility product principle, hydrolysis, with an introduction to nuclear chemistry, biochemistry, and organic chemistry. Laboratory will include semimicro qualitative analysis. Prerequisite: CHM 162.
- CHM 164 PHYSIOLOGICAL CHEMISTRY**..... 4 (3-3-0)  
 A course structured to provide an understanding of the scope, aims, and fundamentals of modern chemistry by presenting facts, theories, and principles of the science. The course will serve as the basic chemistry course for student nurses.

### COOPERATIVE EDUCATION

- COE COOPERATIVE EDUCATION INTERNSHIP 1, 2, 3, or 4..**  
 (0-10, 20, 30, 40, 0)  
 Cooperative Education work experiences enable students to work in positions related to their programs of study and/or career interest and for employers selected and/or approved by the institution. Students are supervised periodically by faculty or staff members from the College. Credit hours are determined by dividing the average number of hours worked per week, during an eleven-week quarter, by 10, and rounding to the nearest whole number. Contact hours are determined by multiplying the number of hours worked per week by .5. A maximum of eight credit hours toward degree or diploma requirements may be earned. Prerequisite: One quarter as a full-time student at Mitchell Community College or permission of the Cooperative Education Program Coordinator.



**COSMETOLOGY**

COS 1001 SCIENTIFIC STUDY I ..... 10 (5-0-15)

COS 1001A (Part-time) 4 (2-0-6)

COS 1001B (Part-time) 6 (3-0-9)

This course is for beginners in Cosmetology. It includes a study of hygiene and good grooming, visual poise, personality development, professional ethics, bacteriology, sterilization and sanitation, draping, shampooing and rinsing, scalp and hair care, cosmetology law, anatomy, chemistry, nails and disorders of the nail, manicuring, skin and disorders of the skin, scalp and hair.

COS 1011 MANNEQUIN PRACTICE ..... 5 (0-0-17)

COS 1011A (Part-time) 3 (0-0-9)

COS 1011B (Part-time) 2 (0-0-8)

A study of finger waving, hair styling and hair shaping. The care and styling of wigs, permanent waving, hair coloring, chemical hair relaxing and chemical blowout, draping, shampooing and rinses, scalp, and hair care, and manicuring.

COS 1002 SCIENTIFIC STUDY II ..... 5 (5-0-0)

COS 1002A (Part-time) 2 (2-0-0)

COS 1002B (Part-time) 3 (3-0-0)

This course is for advanced students in Cosmetology. It includes a study of hair shaping, finger waving, hairstyling, the care and styling of wigs, permanent waving, hair coloring, chemical hair relaxing and chemical blowout, and thermal hair straightening.

COS 1022 CLINICAL APPLICATIONS I ..... 10 (0-0-32)

COS 1022A (Part-time) 5 (0-0-15)

COS 1022B (Part-time) 5 (0-0-17)

A study of live model performance. The purpose of this course is to develop skills and to understand techniques. Laboratory practice in the areas of professional ethics, sterilization and sanitation, draping, shampooing and rinsing, scalp and hair care, hair shaping, finger waving, hairstyling, the care and styling of wigs, permanent waving, and hair coloring.

COS 1003 SCIENTIFIC STUDY III ..... 5 (5-0-0)

COS 1003A (Part-time) 2 (2-0-0)

COS 1003B (Part-time) 3 (3-0-0)

The course gives classroom study in thermal waving, curling, and blow-dry styling, theory of massage, facials, facial make-up, false eyelashes, and superfluous hair removal.

COS 1033 CLINICAL APPLICATIONS II ..... 10 (0-0-32)

COS 1033A (Part-time) 5 (0-0-15)

COS 1033B (Part-time) 5 (0-0-17)

A continued study of laboratory practices, chemical hair relaxing and chemical blowout, thermal hair straightening, thermal waving, curling, blow-dry styling, manicuring chemistry, facials, and facial make-up.

COS 1004	SCIENTIFIC STUDY IV .....	5 (5-0-0)
COS 1004A	(Part-time)	2 (2-0-0)
COS 1004B	(Part-time)	3 (3-0-0)

The course gives classroom study in cells, skin, hair, scalp disorders, salon management, and cosmetology law.

COS 1044	CLINICAL APPLICATIONS III .....	10 (0-0-32)
COS 1044A	(Part-time)	5 (0-0-15)
COS 1044B	(Part-time)	5 (0-0-17)

A continued study of laboratory practice in permanent waving, hair styling, hair shaping, sanitation and sterilization.

**CRIMINAL JUSTICE—PROTECTIVE SERVICE TECHNOLOGY**

CJC 101	INTRODUCTION TO CRIMINAL JUSTICE .....	5 (5-0-0)
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This course is designed to familiarize the student with a philosophy and history of law enforcement, its legal limitations in our society, the primary duties and responsibilities of the various agencies in the criminal justice field, the basic processes of justices, and evaluation of law enforcement's current position, and an orientation relative to the profession as a career.

CJC 102	CRIMINOLOGY .....	5 (5-0-0)
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A general course designed to introduce the student to the causation of crime and delinquency. The historical and contemporary aspects of crime, law enforcement, punishment, and correctional administration will be discussed.

CJC 110	JUVENILE DELINQUENCY .....	5 (5-0-0)
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General survey of juvenile delinquency as an individual and social problem, theories of delinquency, causation, and methods of correction and prevention. The course will present a general overview of the juvenile court.

CJC 115	CRIMINAL LAW .....	3 (3-0-0)
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A course designed to present a basic concept of criminal laws and to provide a legal groundwork for those who seek to enter the criminal justice field.

CJC 125	CRIMINAL PROCEDURE .....	5 (5-0-0)
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This course is designed to provide the student with a review of court systems; procedures from incident to final disposition; principles of constitutional, federal, state, and civil laws as they apply to and affect law enforcement.

CJC 201	N.C. JUVENILE DETENTION AND CORRECTIONS..	3 (3-0-0)
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This course examines the juvenile court procedure, juvenile detention and juvenile correction in North Carolina.

CJC 202	TRAFFIC ENFORCEMENT .....	5 (5-0-0)
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A study which covers the history of the traffic enforcement problems and gives an overview of the problem as it exists today. Attention will be given to the three E's (enforcement, evaluation, effectiveness) and legislation, the organization of the traffic unit, the responsibilities to the traffic function of the various units within the law enforcement agency, enforcement tactics, evaluation of the traffic program effectiveness and the allocation of men and materials. Accident investigation is stressed.



- CJC 203 CORRECTIONS** ..... 3 (3-0-0)  
 An examination of the total correctional process from law enforcement through the administration of justice, probation, prisons and correctional institutions, and parole. This course will provide a history and philosophy in the field of correction.
- CJC 204 PAROLES, PROBATION, AND PARDONS** ..... 3 (3-0-0)  
 Probation as a judicial process and parole as an executive function are examined as community-based correctional programs and the use of pardons is reviewed.
- CJC 205 CRIMINAL EVIDENCE** ..... 5 (5-0-0)  
 Instruction covers the kinds and degrees of evidence and the rules governing the admissibility of evidence in court.
- CJC 206 COMMUNITY RELATIONS** ..... 3 (3-0-0)  
 This course will provide the student with an understanding of community structures as they relate to minority groups, peer groups, socioeconomic groups, leader groups, and group relations. Emphasis will be placed on the organization and function of these groups as they relate to the profession of criminal justice-protective service.
- CJC 207 CONFINEMENT FACILITIES ADMINISTRATION** 3 (3-0-0)  
 This course is designed to familiarize the student with the supervision and administration of confinement facilities involving techniques of inmate supervision, security, medical care of prisoners, food preparation, sanitation, and various legal aspects controlling detention facilities, correctional institutions, and jails.
- CJC 209 CORRECTION LAW** ..... 3 (3-0-0)  
 This course is designed to familiarize the student with the specific laws as they pertain to correction, care, custody and control.
- CJC 210 CRIMINAL INVESTIGATION** ..... 5 (4-2-0)  
 This course introduces the student to fundamentals of investigation; crime scene search; recording, collection, and preservation of evidence; sources of information, interview and interrogation, case preparation, and court presentation.
- CJC 211 CRIMINALISTICS I** ..... 5 (4-2-0)  
 A course designed to introduce the student to the forensic aspects of police science and the crime lab, its function and scope. The student is further introduced to lab equipment generally found in use in a police crime lab. In addition, the course studies physical and chemical properties of certain substances, chemical changes, weights and measurements, and organic analysis and inorganic analysis.
- CJC 212 CRIMINALISTICS II**..... 5 (4-2-0)  
 A continuation of the forensic aspects of police science. The subject matter concentrates on the procedures to be undertaken in the crime lab. Emphasis is placed on fulfilling all legal requirements regarding handling and evaluation of physical evidence. All students participate in a crime scene and the investigation of all evidence pertaining to the crime.
- CJC 216 ADVANCED CRIMINAL LAW** ..... 3 (3-0-0)  
 A continuation of Criminal Law I which presents a basic concept of criminal law and creates an appreciation of the rules under which one

lives in our system of government. Primary emphasis will be placed on North Carolina law. Prerequisite: CJC 115.

CJC 217 PATROL ADMINISTRATION ..... 3 (3-0-0)

This course defines the purposes of patrols and describes the types of patrols. It explains the operation of police vehicles on patrol, answering calls—emergency and non-emergency and felony in progress. It provides the student the opportunity to develop powers of perception, and observation concerning persons, places, and things. Safe driving techniques and use of equipment are presented.

CJC 220 POLICE ORGANIZATION AND ADMINISTRATION.. 5 (5-0-0)

Introduction to principles of organization and administration, discussion of the service functions, e.g., personnel management, police management, training, communications, records, property maintenance, and miscellaneous services.

CJC 221 CORRECTION ADMINISTRATION ..... 3 (3-0-0)

Emphasis is placed on the principles of administration in the correctional setting including budgeting and financial control, recruitment and development of staff, administrative decision making, public relations, and other correctional administrative functions.

CJC 223 CORRECTION COUNSELING..... 4 (3-2-0)

This course is designed to provide the student with information pertaining to counseling techniques as they apply to the needs of a correction officer. Time is provided for role playing and other practical techniques.

CJC 224 REHABILITATION ..... 3 (3-0-0)

This course is designed to provide the student with the opportunity to explore the different avenues of rehabilitation. The new and innovative techniques of rehabilitation will be emphasized as they relate to successful methods.

CJC 230 COUNSELING..... 3 (3-0-0)

This course is designed to present the basic elements of counseling. The basic elements will be applied to the different socioeconomic groups in our society.

CJC 234 COMMUNITY-BASED CORRECTION ..... 3 (3-0-0)

Community resources that can be utilized in the correctional process are examined such as vocational rehabilitation, alcohol detoxification and other units, welfare services, child guidance and mental health clinics, employment services, private volunteer, professional assistance, legal aid, and other pertinent services.

**DRAFTING**

DFT 113 ELECTRONIC DRAFTING ..... 4 (1-6-0)

The fundamentals of drafting are presented with an emphasis on applications in the electronics field. Basic skills and techniques are included such as the use of drafting instruments, types of drawings, construction of drawings both with instruments and freehand, lettering and dimensioning, and how to read prints. In addition to basic skills, specialized experience will be included which directly relates to the electronics industry, such as types of drawings common to electronics, special symbols used, schematic diagrams and layout diagrams with an emphasis on printed circuit work.



- DFT 151 ARCHITECTURAL DRAFTING..... 3 (2-2-0)**  
 The purpose of this course is to provide basic instruction in preparing architectural working drawings and to serve as a future reference for design and construction principles and methods. It is intended to help the student develop the necessary technical skills which will enable him to communicate and express his architectural ideas in an understandable, efficient, and accurate manner.
- DFT 1104 BLUEPRINT READING ..... 2 (1-0-3)**  
 Interpretation and reading of blueprints. Information on the basic principles of the blueprint: views, dimensioning procedures and notes.
- DFT 1105 BLUEPRINT READING: MECHANICAL ..... 1 (0-0-3)**  
 Interpretation of blueprints as they are used in industry; study of prints supplied by industry; making plans of operations; introduction to drafting room procedures; sketching as a means of passing on ideas, information and processes.
- DFT 1110 BLUEPRINT READING: BUILDING TRADES 2 (1-0-3)**  
 Principles of interpreting blueprints and specifications common to the building trades. Development of proficiency in making three view and pictorial sketches.
- DFT 1113 BLUEPRINT READING: ELECTRICAL ..... 1 (0-0-3)**  
 Interpretation of schematics, diagrams and blueprints applicable to electrical installations with emphasis on electrical plans for domestic and commercial buildings. Sketching schematics, diagrams, and electrical plans for electrical installations using appropriate symbols and notes according to the applicable codes will be a part of this course. Prerequisite: DFT 1110 or DFT 1104 or permission of instructor.
- DFT 1116 BLUEPRINT READING: AIR CONDITIONING 1 (0-0-3)**  
 A specialized course in drafting for the heating, air conditioning and refrigeration student. Emphasis will be placed on reading of blueprints that are common to the trade; blueprints of mechanical components, assembly drawings, wiring diagrams and schematics, floor plans, and shop sketches. The student will make tracings of floor plans and lay out air conditioning systems. Prerequisite: DFT 1110 or permission of instructor.
- DFT 1117 BLUEPRINT READING: WELDING ..... 3 (3-0-0)**  
 A thorough study of trade drawings in which welding procedures are indicated. Interpretation, use and application of welding symbols, abbreviations, and specifications.
- DFT 1118 PATTERN DEVELOPMENT AND SKETCHING 2 (1-0-3)**  
 Continued study of welding symbols; methods used in layout of sheet steel; sketching of projects, jigs and holding devices involved in welding. Special emphasis is placed on developing pipe and angle layouts by the use of patterns and templates. Prerequisite: DFT 1117.
- DFT 1120 BASIC DRAFTING ..... 4 (2-0-6)**  
 An introduction to drafting and the study of drafting practices. Instruction is given in the selection, use and care of instruments, Gothic single-stroke lettering, geometric construction, and basic orthographic projection. Methods of reproducing and control of drawings are explored.

- DFT 1121 BASIC INDUSTRIAL DRAFTING..... 2 (1-0-3)  
Drafting instruction and experience in the preparation and interpretation of shop drawings. The student will draw elementary machine parts both in detail and assembly drawings. Special emphasis is given to notes and other material related to machine shop and other manufacturing processes.
- DFT 1122 TECHNICAL SKETCHING ..... 2 (1-0-3)  
Study and practice in freehand sketching of machine parts with pencil. Sketches are made in orthographic, isometric, and oblique projection, as well as in perspective. Various types of shading techniques are included.
- DFT 1123 ADVANCED DRAFTING ..... 4 (2-0-6)  
This course includes the application of orthographic principles to the more complex drafting problems, primary and secondary auxiliary views, and simple and successive revolutions and their applications to practical problems. Sections and conventions will be studied and both detail and assembly sections will be drawn. Prerequisite: DFT 1120 or permission of instructor.
- DFT 1124 DIMENSIONING AND TOLERANCING ..... 4 (2-0-6)  
Students will apply basic dimensioning practices to various types of drafting problems. The principles of tolerancing will be explored through definition of terms, calculations of fits and geometric tolerancing. All dimensioning and note practices will be in compliance with American Standards Association practices. Prerequisite: DFT 1120 or permission of instructor.
- DFT 1125 DESCRIPTIVE GEOMETRY ..... 4 (2-0-6)  
A graphic analysis of space problems. Involving points, lines, planes, connectors, and a combination of these. Practical design problems are stressed with analytical verification where applicable. Visualization is stressed on every problem. Prerequisite: MAT 1101, DFT 1123 and 1124 or permission of instructor.
- DFT 1128 TECHNICAL ILLUSTRATION ..... 2 (1-0-3)  
This course will expose the student to the major illustration techniques and methods related to technical illustration. Extensive use of isometric, dimetric, and trimetric projection and perspective will be practiced by the students. Prerequisite: DFT 1120 or permission of instructor.
- DFT 1130 COMPUTER ASSISTED DRAFTING ..... 2 (1-0-3)  
Upon completion of this course, students should be able to: identify the components of a CAD system and define their use; understand the major CAD systems used in industry, their similarities and differences; have a working understanding of the commands, and controls of a CAD system; draw electronically elements of drawings such as lines, circles, arcs, curves, etc.; execute simple orthographic drawings electronically; dimension simple drawings. Prerequisite: DFT 1123 or permission of instructor.
- DFT 1131 MECHANICAL DRAFTING I..... 4 (2-0-6)  
An introduction to mechanical drafting beginning with methods of fastening materials, and fasteners: keys, springs, rivets, and welding. Intersections and developments will be studied by relating drawings to



the sheet metal trades. Principles of design will be introduced with the study of basic mechanisms of motion transfer, gears, cams, power trains, pulleys, belting and methods of specifying and calculating dimensions will be studied. Prerequisite: DFT 1123 and 1124 or permission of instructor.

**DFT 1132 MECHANICAL DRAFTING II ..... 4 (2-0-6)**

Principles of design sketching, design drawings, layout drafting, detailing from layout drawings, production drawings and simplified drafting practices constitute areas of study. Specifications, Parts List and Bill of Materials are emphasized in this course. The student will develop a complete set of working drawings of a tool, jig, fixture or simple machine and principles of design, handbook, and manual usage. Prerequisite: DFT 1131.

**DFT 1134 ARCHITECTURAL DRAFTING ..... 2 (1-0-3)**

Upon completion of this course, students should be able to: apply basic residential construction terminology to drawings; draw plans and elevations with proper dimensioning; choose the most appropriate basic house structure and determine involved traffic patterns; plan the individual rooms, stairs, halls and core units (kitchen, bath and utility rooms); design the exterior of house, including shape and proper material. Prerequisite: DFT 1120 or permission of instructor.

### **DRAMA**

**DRA 151 DRAMA APPRECIATION ..... 3 (2-2-0)**

An introductory course in drama, with overviews of the history of the theater, and various aspects of play production. Particular attention is given to the actor's understanding and exercise of basic skills and techniques. The course is designed to develop imagination, self-awareness, and the ability of improvisation. Work in individual and group projects.

### **ECONOMICS**

**ECO 251 MACROECONOMICS ..... 5 (5-0-0)**

The economic analysis of the economy as a whole. It includes such areas of study as total employment, total production, the business cycle, the general price level, and measures used to stabilize the level of business activity.

**ECO 252 MICROECONOMICS ..... 5 (5-0-0)**

The economic analysis of the problems of individuals, firms, and industries. It includes such areas as price determination, forces of supply and demand, competition, monopoly, and profit maximization. Prerequisite: ECO 251 or permission of the instructor.

### **EDUCATION**

**EDU 100 INSTRUCTIONAL MEDIA ..... 3 (2-2-0)**

A study of the school media center, the course will include basic library techniques, operation and care of audiovisual equipment, proper use of and production of audiovisual materials.

- EDU 261 INTRODUCTION TO EDUCATION ..... 3 (3-0-0)  
 A survey of various phases of education and teaching. The course provides an introduction to the fundamental principles, techniques and procedures, objectives, and historical views in education. It is designed primarily for students entering the teaching profession.

### ELECTRICITY

- ELC 111 INTRODUCTION TO ELECTRICITY ..... 4 (3-2-0)  
 Principles of electricity are covered along with electrical equipment commonly used in industrial situations. Study includes resistance networks, AC/DC meters, and AC/DC applications circuits.
- ELC 112 ELECTRICAL FUNDAMENTALS I ..... 6 (4-4-0)  
 A qualitative study of units of measurement, electrical quantities, simple circuits, electromotive forces, current power, laws, basic electrical instruments and measurements, resistance, impedance and basic circuit components. Concepts taught are generally limited to fundamentals with very little emphasis placed on quantitative aspects. Laboratory work will teach the proper use and care of basic hand tools and the basic manual skills used in working with electricity. Measurement techniques and safety practices will be stressed throughout.
- ELC 113 ELECTRICAL FUNDAMENTALS II ..... 6 (4-4-0)  
 A continuation of ELC 112. Introduction to magnetism, alternating current theory, sine wave analysis, inductance, capacitance, reactance, phase relationships, power and transformers. Prerequisite: ELC 112.
- ELC 222 SOLID STATE CONTROLS ..... 4 (3-3-0)  
 Introduction to static switching circuits and controls. Boolean algebra, static switching applications involving logic components, and design of control circuits. Dynamic controls involving solid state devices such as the transistor, integrated circuit, and digital readout. Minicomputers and their relationship to the control of machines and manufacturing processes will be studied.
- ELC 1101 DIRECT CURRENT ..... 5 (2-6-0)  
 A study of the electrical structure of matter and electron theory, the relationship between voltage, current, and resistance in series, parallel, and series parallel circuits. An analysis of direct current circuits by Ohm's law and Kirchhoff's law. A study of the sources of direct current voltage potentials.
- ELC 1102 ALTERNATING CURRENT ..... 5 (2-6-0)  
 A study of alternating current, voltage and resistance in series, parallel circuits, and series-parallel circuits. Fundamental concepts of alternating current, reactance, impedance, phase angle, power, and resonance. Analysis of alternating current circuits.
- ELC 1103 AC & DC MACHINES ..... 6 (4-4-0)  
 Provide fundamental concepts in single and polyphase alternating current, direct current, circuits, voltages, power measurements, transformers and motors. Instructions in the use of electric test instruments in circuit analysis. Prerequisite: ELC 1101 & 1102 or permission of instructor.



- ELC 1104 AC & DC MACHINE CONTROLS ..... 6 (4-4-0)  
An introduction to the types of controls used in AC & DC Machines such as timers, relays, limit switches, push buttons, magnetic starters, sequencing switching, and the use of test instruments. Prerequisite: ELC 1101 & 1102 or permission of instructor
- ELC 1115 ELECTRICAL MATHEMATICS ..... 5 (5-0-0)  
An introductory algebra course with vectors needed in alternating current. Algebraic operations of addition, subtraction, multiplication, and division; use of letters and signs, grouping, factoring, exponents, ratios, algebraic and graphic solutions of equations, introduction to graphs, right triangles and vectors.
- ELC 1124 RESIDENTIAL WIRING ..... 8 (6-0-6)  
Provides instruction and application in the fundamentals of blueprint reading, planning, layout, and installation of wiring in residential applications such as services, switchboards, lighting, fusing, wire sizes, branch circuits, conduits, National Electrical Code regulations in actual building mock-ups.
- ELC 1125 COMMERCIAL AND INDUSTRIAL WIRING ..... 8 (6-0-6)  
Layout, planning, and installation of wiring systems in commercial and industrial complexes, with emphasis upon blueprint reading and symbols, the related National electrical Codes, and the application of the fundamentals to practical experience in wiring, conduit preparation, and installation of simple systems. Prerequisite: ELC 1124 or permission of instructor.

**ELECTRONIC DATA PROCESSING**

- EDP 103 UTILITIES..... 3 (3-0-0)  
An introductory to computer operational software. The student will be familiarized with the basic components and procedures of using an interactive system. Editor use and file copy will be given major emphasis. Prerequisite: EDP 151, or permission of the instructor.
- EDP 107 RPG I ..... 5 (4-2-0)  
An introduction to RPG II programming. The student will obtain experience in the use of the RPG II computer language for coding business computer applications. Prerequisite: EDP 151, or permission of the instructor.
- EDP 108 ADVANCED RPG II ..... 5 (4-2-0)  
A continuation of EDP 107 which includes an intensive study in coding and programming of the RPG computer language. Prerequisite: EDP 107 or permission of instructor.
- EDP 130 IBM PC DOS ..... 1 (1-0-0)  
An initial course that develops an understanding of PC-DOS, the operating system. Normal user operations are explored: formatting diskettes, copying files, removal of files, and other normal operational concepts. Upon completion of this course students will have been exposed to the most frequently used functions of the IBM PC. Prerequisite: Typing knowledge.

- EDP 131     KEYBOARDING ON THE IBM PC ..... 1 (1-0-0)  
 Keyboarding offers basic instruction on the IBM PC. Alphanumeric keyboard and ten-key numeric pad touch are introduced. Students will receive introductory concepts and correct approaches to the use of the IBM PC keyboard. No prerequisite.
- EDP 151     INTRODUCTION TO DATA PROCESSING ..... 5 (5-0-0)  
 An introductory course designed to acquaint students with the overall field of data processing. It includes a historical review of data processing, basic terminology, fundamental concepts of data processing, job opportunities and requirements in the D.P. field. The laboratory exercises are devoted to familiarizing students with the basic data processing equipment. This course is designed for students majoring in areas other than data processing as well as data processing majors.
- EDP 155     BASIC LANGUAGE PROGRAMMING ..... 3 (2-2-0)  
 An introduction to digital computing techniques through the study of the BASIC language. Students learn the techniques of problem solving and program development. Concepts of microcomputer hardware and computer applications areas are introduced. Topics covered include: algorithms, flowcharting, commands, statements, built-in functions, arrays, and strings.
- EDP 157     BASIC PROGRAMMING FOR BUSINESS ..... 4 (3-2-0)  
 The student will gain experience in designing and writing a variety of programs covering important programming techniques applicable to the business environment. Emphasis will be placed on good program design and coding. With a firm foundation in program design, the student will be able to produce professional quality software. Prerequisite: EDP 103 or currently enrolled in EDP 103.
- EDP 158     INTRODUCTION TO THE IBM PC WITH  
                  BASIC PROGRAMMING ..... 4 (3-2-0)  
 This course familiarizes students with the IBM PC system hardware and its operation, and introduces them to the Personal Computers Disk Operating System (PC DOS). Basic programming will be studied for a fundamental understanding and appreciation of the terminology. Students will enter and run from the keyboard limited programs of their own design as well as programs given to them. Prerequisite: BUS 153 or permission of instructor.
- EDP 159     IBM SOFTWARE APPLICATIONS ..... 4 (3-2-0)  
 This hands-on workshop oriented course is designed to familiarize participants with microcomputer operations using selected spreadsheet and database management system programs. Prerequisite: BUS 153 or permission of instructor.
- EDP 160     ADVANCED BASIC ..... 3 (2-2-0)  
 A continuation of the basic language concepts learned in EDP 155 or EDP 158, using advanced concepts through graphic, color and sound programming. Additional techniques will be stressed. Prerequisite: EDP 155, EDP 158, or permission of instructor.



- EDP 203     SYSTEMS ANALYSIS & DESIGN** ..... 3 (3-0-0)  
 A course in business systems analysis and design covering its scope, methods, and type of investigation, feasibility study, justifications for design of input, design of output, and storage of files. Prerequisites: EDP 107 or EDP 207 or permission of instructor.
- EDP 207     COBOL** ..... 5 (4-2-0)  
 This course is intended to introduce the student to programming computers for commercial and business applications using the COBOL language. The student will obtain experience in solving practical problems using this language. Prerequisites: EDP 151 and EDP 103 or permission of instructor.
- EDP 208     ADVANCED COBOL**..... 5 (4-2-0)  
 A continuation of EDP 207 which includes an intensive study in coding and programming complex business applications using the COBOL language. Prerequisites: EDP 207 or permission of instructor.
- EDP 210     FINAL PROJECT** ..... 5 (2-6-0)  
 The student will select and design a computerized system and its resulting computer program utilizing the RPG or COBOL languages. Prerequisites: EDP 108, EDP 203, EDP 208 or permission of instructor.

### **ELECTRONICS**

- ELN 121     ELECTRONICS I**..... 5 (3-4-0)  
 A study of semiconductor fundamentals to include theory of operation and electrical characteristics of numerous semiconductor devices. Specific devices will include semiconductor signal and power diodes, zener diodes, tunnel diodes, varactor diodes, bipolar transistors, field effect transistors, thyristors, integrated circuits and optoelectronic devices. Prerequisite: ELC 112.
- ELN 122     ELECTRONICS II** ..... 7 (4-6-0)  
 A continuation of Electronics I with special emphasis on the construction of amplifier circuits, circuit configurations, electrical characteristics and amplifier design procedure. Specific types of circuits will include: basic amplifiers, operational amplifiers, power supplies, oscillators, pulse circuits and modulation systems. Prerequisite: ELN 121.
- ELN 123     ELECTRONICS III** ..... 6 (4-4-0)  
 A continuation of Electronics II centering around the operational amplifier and its many uses. Circuits to be studied include integrators, differentiators, precision rectifiers, and Schmidt Triggers. Prerequisite: ELN 122 or permission of instructor.
- ELN 202     ELECTRONIC COMMUNICATIONS SYSTEMS**.... 7 (5-4-0)  
 A study of electronic communications systems to include: AM SSB, and FM transmitters and receivers. Specific areas of study will include: amplitude modulation techniques, frequency modulation, antennas, communications test equipment, and broadcast station requirements. Prerequisite: ELN 122.

- ELN 203 MICROPROCESSORS** ..... 7 (4-6-0)  
 A study of microprocessors and microcomputers. Topics covered include: microcomputer basics, number systems and codes, computer arithmetic, introduction to programming, operation of microprocessors, and interfacing techniques. Prerequisite: ELN 219.
- ELN 208 INDUSTRIAL ELECTRONICS** ..... 6 (5-2-0)  
 A study of industrial electrical control systems to include starting, stopping, reversing, and speed control for electrical motors. Industrial electronic switching components to include SCR's, UJT's, diacs, relays, and gate controlled circuitry will be covered. Also, transducers to include photocells, temperature sensing devices, pressure gauges, etc. Open and closed loop systems will be considered as well as numerical control. Prerequisite: ELN 122.
- ELN 219 DIGITAL FUNDAMENTALS** ..... 5 (3-4-0)  
 Emphasizes the study of combinational and sequential logic circuits using discrete and integrated components. Topics include: binary arithmetic, numbering systems, Boolean algebra, storing, timing, gating, and counting. Typical applications in industry will be presented. Prerequisite: ELN 122.
- ELN 220 ELECTRONIC SYSTEMS** ..... 6 (4-4-0)  
 The course consists of a functional block diagram analysis of a number of digital computer systems. Emphasis is placed on the mini-micro computer variety currently being used in industry. The lab will provide practice in manipulating the hardware and software associated with such computers. Prerequisite: ELN 203.
- ELN 229 DIGITAL CIRCUITS** ..... 6 (4-4-0)  
 A continuing study of complete logic circuits with an introduction to the principles on which microprocessors are based. The course will emphasize counters, registers, memory, tri-state logic, and bus structures (serial and parallel architecture.) Prerequisites: ELN 219 or permission of instructor.
- ELN 246 ELECTRONICS DESIGN PROJECT** ..... 3 (1-4-0)  
 A laboratory class emphasizing independent research and design work by the student. The student will select a project in consultation with the instructor; perform the required research; compile data, formulate a theoretical model; and construct, test, and evaluate a working model of the selected project. Prerequisite: ELN 203.
- ELN 1105 INTRODUCTION TO INDUSTRIAL ELECTRONICS** ..... 6 (4-4-0)  
 This course will introduce the physical properties and electrical behavior of discrete semiconductor devices and their use in simple circuits. Power supplies amplifiers, oscillators, and pulse circuits will be discussed.
- ELN 1106 ROTATING ELECTRICAL MACHINES** ..... 6 (4-4-0)  
 This course will cover the construction, characteristics and application of electrical motors and generating devices. Generators, alternators, and AC and DC motors of various types will be discussed, as well as power distribution, single-phase and three-phase systems and transformers, and their application to industrial machinery.



- ELN 1107 ELECTRONIC POWER CONTROL..... 6 (4-4-0)**  
 This course will focus on Electronic methods for control of heat, light, motor speed and similar processes. Techniques for power control by use of transistors, thyristors and other semiconductor devices will be emphasized.
- ELN 1108 SWITCHING AND DIGITAL CONTROL..... 6 (4-4-0)**  
 This course will include an introduction to the use of semiconductor switching as a basic decision-making tool in the control of industrial machinery. Methods for combining simple switches to perform complex logical control functions will be explored.
- ELN 1109 ELECTRONIC CONTROL SYSTEMS..... 6 (4-4-0)**  
 This course will investigate various types of linear electronic control circuits with special attention to closed loop control including proportional, integral, and derivative process control methods.
- ELN 1110 PROGRAMMABLE CONTROLS..... 6 (4-4-0)**  
 This course will explore the rapidly developing technology of microprocessor-based programmable controllers and their use in automated industrial settings. Design and development of programs to perform specific control functions will be studied as well as special techniques for troubleshooting in systems under programmable control.
- ELN 1118 INDUSTRIAL ELECTRONICS ..... 5 (3-0-6)**  
 Basic theory, operating characteristics, and application of vacuum tubes such as diodes, triodes, tetrodes, pentodes, power supplied using diodes, and other basic applications.
- ELN 1119 INDUSTRIAL ELECTRONICS ..... 5 (3-4-0)**  
 Basic industrial electronic systems such as motor controls, magnetic amplifier controls, welding control systems using thyratron tubes and other basic types of systems commonly found in most industries. Prerequisite: ELN 1118 or permission of instructor.

### **ENGINEERING**

- EGR 101 CONTROL SYSTEMS..... 4 (3-3-0)**  
 An introduction to the principles of hydraulics, pneumatics, and electrical controls used in industrial systems. Their construction, function and relationship to other system components will be studied. The use of test instruments and controls will be covered in both classroom and laboratory situations.
- EGR 151 INTRODUCTION TO GRAPHICS ..... 3 (2-2-0)**  
 The purpose of this course is to provide beginning instruction in the fundamentals of mechanical drawing and will provide the necessary skills for the future study of mechanical, architectural, engineering or other technical drafting disciplines.
- EGR 152 ENGINEERING GRAPHICS..... 3 (2-2-0)**  
 This course will be a continuation of EGR 151. Emphasis is placed on graphical analysis as a means for evaluating a design. Units of study include elements of descriptive geometry, advanced orthographic projection, sectional views, auxiliary views, revolutions, and developments and intersections.

**ENGLISH**

- ENG 098     **DEVELOPMENTAL ENGLISH** ..... 3 (1-4-0)  
 Designed for students who need a review of basic grammar skills before entering English 099. Institutional credit only.
- ENG 099     **COMPOSITIONAL SKILLS** ..... 3 (1-4-0)  
 The course is designed to provide students with the essential techniques for writing in the traditional rhetorical modes required in college level English courses. It emphasizes paragraph and essay structures, strategies for developmental support, grammar, vocabulary, spelling, and sentence structure. Institution credit only.
- ENG 101     **GRAMMAR I** ..... 3 (1-4-0)  
 A functional course designed to prepare technical students for day-to-day work experiences. Emphasis on grammar, vocabulary, and spelling.
- ENG 102     **COMPOSITION** ..... 3 (3-0-0)  
 This course is designed to serve as a transition between ENG 101 and ENG 103. It deals with paragraph and essay development, and reinforces skills—spelling, vocabulary, and grammar. It serves briefly to introduce the rudiments of report writing. Prerequisite: ENG 101
- ENG 103     **TECHNICAL WRITING** ..... 3 (3-0-0)  
 A continuation of functional English with an emphasis on the formats of various types of written reports, graphics, and the techniques of planning and organizing the long formal report. Prerequisite: ENG 102.
- ENG 151     **COMPOSITION I** ..... 3 (1-4-0)  
 A course in expository writing designed to develop purpose and organization. Emphasis on topic sentence, paragraph patterns, outline, expository essay and research paper. Study of library skills. Study of models. Review of grammar and spelling.
- ENG 152     **COMPOSITION II** ..... 3 (3-0-0)  
 Continuation of ENG 151. Essay patterns. Short literary papers. Study of short and long fiction. Prerequisite: ENG 151.
- ENG 153     **COMPOSITION III** ..... 3 (3-0-0)  
 Continuation of ENG 152. Literary essays using primary sources. Study of poetry and drama. Prerequisite: ENG 151.
- ENG 261     **MAJOR BRITISH WRITERS** ..... 5 (5-0-0)  
 A literary and historical study of Chaucer, Shakespeare, and Milton with related writing assignments. Prerequisite: ENG 153.
- ENG 265     **ENGLISH LITERATURE** ..... 5 (5-0-0)  
 A survey of selected 19th and 20th century British authors with collateral readings from each period studied. Prerequisite: ENG 153.
- ENG 271     **AMERICAN LITERATURE I** ..... 3 (3-0-0)  
 A critical and historical survey of American literature from the Colonial period through the early Romantics. Prerequisite: ENG 153.
- ENG 272     **AMERICAN LITERATURE II** ..... 3 (3-0-0)  
 A continuation of the survey of American literature from the Romantics through the Realists. Prerequisite: ENG 153.
- ENG 273     **AMERICAN LITERATURE III** ..... 3 (3-0-0)  
 A continuation of the survey of American literature from the rise of Naturalism to the present time. Prerequisite: ENG 153.



- ENG 1102 COMMUNICATION SKILLS**..... 3 (3-0-0)  
Designed to promote effective communication through correct language usage in speaking and writing.

### **FRENCH**

- FRE 151 ELÉMENTARY FRENCH I** ..... 5 (5-0-0)  
A beginning course for students who have never studied French. Much oral work, drill in grammatical principles, written composition, conversation, dictation, and pronunciation are stressed. French 151 and 152 are equivalent to two years of high school French. Senior colleges which require two years of a foreign language for admission normally accept these two courses for entrance credit or for six semester hours elective credit.
- FRE 152 ELEMENTARY FRENCH II** ..... 5 (5-0-0)  
A continuation of FRE 151. Prerequisite: One year of high school French or FRE 151.
- FRE 251 INTERMEDIATE FRENCH I** ..... 5 (5-0-0)  
A review of grammatical and linguistics principles covered through the 152-level course and a study of more advanced grammar and composition and of cultural and literary reading selections.
- FRE 252 INTERMEDIATE FRENCH II** ..... 5 (5-0-0)  
A continuation of FRE 251, with an emphasis placed on analyzing and translating literary genres of several important writers of the French-speaking world.

### **GEOGRAPHY**

- GEO 261 PHYSICAL GEOGRAPHY** ..... 5 (5-0-0)  
The earth's astronomical relations, factors of weather and climate, and physical features.
- GEO 262 WORLD REGIONS AND ECONOMIC GEOGRAPHY..**  
5 (5-0-0)  
Relations of human activities to the larger geographic regions of the world. Geographic factors involved in production, distribution, consumption, and conservation of the major crops, minerals and industries of the world.

### **HEALTH EDUCATION**

- HEA 251 FIRST AID AND SAFETY** ..... 3 (3-0-0)  
Principles and practices as applied to emergency first aid, safety in the home, school and community.
- HEA 252 PERSONAL HEALTH** ..... 3 (3-0-0)  
The basic biologic and social concepts dealing with individual hygiene, disease, nutrition, mental health, heredity, and family hygiene.
- HEA 253 COMMUNITY HEALTH** ..... 3 (3-0-0)  
The basic principles and problems of contemporary community health and school hygiene are investigated. Topics include health education, recognition, evaluation and prevention of today's health problems, and trends in health.

**HISTORY**

- HIS 151 HISTORY OF WESTERN CIVILIZATION I** ..... 5 (5-0-0)  
 An eclectic approach to the history of Western Civilization from prehistoric times through the civilization of Egypt, Mesopotamia, Greece, Rome, and Medieval Europe to about 1650. The course is designed to prepare the student for life in the world community by providing him a knowledge of those events of the past which have shaped the present and will influence the future.
- HIS 152 HISTORY OF WESTERN CIVILIZATION II** ..... 5 (5-0-0)  
 A continuation of History of Western Civilization (151) covering the period from 1650 to the present. The course is designed to afford the student an opportunity to examine the major historical forces which have shaped the political, intellectual, material, and cultural setting of the present.
- HIS 161 NORTH CAROLINA HISTORY** ..... 5 (5-0-0)  
 A survey of the history of North Carolina from the Colonial Era to the present with emphasis on development since the Civil War.
- HIS 251 U.S. HISTORY I** ..... 5 (5-0-0)  
 The backgrounds of history, settlement, constitutional development, and union, along with manifest destiny and developing sectionalism. The course covers the period through 1865.
- HIS 252 U.S. HISTORY II** ..... 5 (5-0-0)  
 Course covers Reconstruction, the progressive movement, World War I, and American history to the present. The student will become more aware of his nation as a part of the world community through this course.
- HIS 261 NINETEENTH CENTURY EUROPE** ..... 3 (3-0-0)  
 An in-depth survey of European history from 1815 to 1914. A cause and effect approach is used to trace the growth of nationalism and liberalism, the development of socialism, and the imperialism which brought turbulence throughout much of the century and eventually triggered World War I.
- HIS 271 TWENTIETH CENTURY EUROPEAN HISTORY** 3 (3-0-0)  
 A consideration of the history of twentieth century Europe, beginning with the background of World War I, the political innovations between wars, World War II and its aftermath, and the significant political, social and cultural events which shaped the present. In addition to a factual examination, the student will relate historical events with his own situation.
- HIS 272 CIVIL WAR AND RECONSTRUCTION** ..... 3 (3-0-0)  
 A study of the American people during the crisis of the war and post-war periods with emphasis on the causes of the war, the national and international impact, and the political, economic and social aspects of the Reconstruction.
- HIS 273 TWENTIETH CENTURY U. S. HISTORY** ..... 3 (3-0-0)  
 A history of the United States from 1932 to the present. Special emphasis is given to the changing political, economic and intellectual aspects of American democracy from the New Deal to the present.



**INDUSTRIAL SAFETY**

ISC 1101 INDUSTRIAL SAFETY ..... 3 (3-0-0)

A study of the overall picture of the accident toll for the nation's population. It is designed to establish safe work habits in performing the occupation. Principles of accident prevention, injury sources and causes, accident costs, job safety analysis, accident investigation, methods of promoting safe practice, safety education and training, first aid, lifting—manually and mechanically, and fire prevention and protection are some of the topics discussed.

**INSTRUCTIONAL SUPPORT SERVICES**

LLB 100C .....(Varied Hours; No Credit)

Special support for students who need individualized attention and increased concentration to support academic class work in General Education. Open to all students enrolled in the General Education curriculum, the lab operates on a multi-entry, multi-exit basis. A teacher referral for required attendance is necessary for student enrollment. Student tutors will be utilized, where applicable, to enhance instructional support.

LLB 100T .....(Varied Hours: No Credit)

Special support for students who need individualized attention and increased concentration to support academic class work in technical education. Open to all students enrolled in a technical curriculum, the lab operates on a multi-entry, multi-exit basis. A teacher referral for required attendance is necessary for student enrollment. Student tutors will be utilized, where applicable, to enhance instructional support.

LLB 100V ..... (Varied Hours: No Credit)

Special support for students who need individualized attention and increased concentration to support academic class work in vocational education. Open to all students enrolled in a vocational curriculum, the lab operates on a multi-entry, multi-exit basis. A teacher referral for required attendance is necessary for student enrollment. Student tutors will be utilized, where applicable, to enhance instructional support.

**MATHEMATICS**

MAT 096 DEVELOPMENTAL MATHEMATICS ..... 3 (1-4-0)

Designed for students who need a review of the basics before taking MAT 151. Topics include expressing numbers, whole numbers, number theory, fractions, decimals, ratio and proportion, and percentages. Institutional credit only.

MAT 120 GENERAL MATHEMATICS ..... 5 (5-0-0)

A survey of mathematical fundamentals to enable one to reach practical solutions to problems that are encountered daily. A course designed to help the student become competent in the performance of basic arithmetic processes.

- MAT 151 FUNDAMENTALS OF MATHEMATICS** ..... 5 (5-0-0)  
 Designed to give insight into the nature and structure of mathematics. Topics include a study of sets of numbers, properties of real numbers, polynomials, equations, inequalities, and graphs. Structured for liberal arts majors. This course does not satisfy the graduation requirements in mathematics for college transfer curricula.
- MAT 161 COLLEGE ALGEBRA** ..... 5 (5-0-0)  
 A modern approach to college algebra with emphasis on the logical structure of this discipline. Topics include numbers, sets, functions, graphs, equations, inequalities, matrices and determinants, the binomial theorem, and theory of equations.
- MAT 162 TRIGONOMETRY** ..... 5 (5-0-0)  
 A study of trigonometry and its applications. Topics include a study of right and oblique triangle relationships, graphs of trigonometric functions, trigonometric identities and equations, inverse trigonometric functions, exponential and logarithmic functions, circular functions and complex numbers in trigonometric form. Calculator usage is emphasized throughout.
- MAT 171 INTRODUCTORY STATISTICS** ..... 5 (5-0-0)  
 The course will include distributions, computation of averages and measures of dispersion, probability distributions, elements of sampling, correlation, prediction, tests of hypothesis. Offered on demand. Prerequisite: MAT 161 or permission of instructor.
- MAT 191 CONCEPTS AND TECHNIQUES OF CALCULUS**..... 5 (5-0-0)  
 A brief treatment of basic concepts of differential and integral calculus with applications to business, economics and the social and life sciences; polynomial, exponential and logarithmic functions. Prerequisite: MAT 161 or permission of instructor.
- MAT 251 CALCULUS I** ..... 5 (5-0-0)  
 This beginning course in calculus offers a review of analytical geometry and is a study of the derivative, its inverse, theorems, and applications. Special attention is placed on the ideas of limits and continuity. This course is designed for mathematics, science, or engineering majors. Prerequisite: MAT 161 or three years of high school mathematics.
- MAT 252 CALCULUS II** ..... 5 (5-0-0)  
 A continuation of MAT 251. Includes integration and its applications, conic sections, limits and continuity. Prerequisite: MAT 251.
- MAT 253 CALCULUS III** ..... 5 (5-0-0)  
 A continuation of MAT 252. The course includes exponential and logarithmic integration and differentiation, parametric equations, polar coordinates, methods of integration and further applications of the integral. Prerequisite: MAT 252.
- MAT 1101 TRADE MATHEMATICS I** ..... 3 (3-0-0)  
 Practical number theory is the basis for this course. Analysis of basic operations; addition, subtraction, multiplication, and division are included. Other topics studied are fractions, decimals, powers and roots, percentages, ratio and proportion. Some work with solid and plane geometric figures is undertaken as well; specifically, determinations of



volume and surface areas. Extensive practice is required. The student is also exposed to basic algebra.

**MAT 1102     TRADE MATHEMATICS II ..... 3 (3-0-0)**

A presentation of basic concepts and operations of algebra; algebraic operations; addition, subtraction, multiplication, and division; fractions, letter representation, grouping, factoring, ratio and proportion, graphical and algebraic solution of first degree equations; solution of simultaneous equations by addition and subtraction; substitution, graphing exponents, logarithms, tables and interpolation, and slide rule. Prerequisite: MAT 1101 or permission of instructor.

**MAT 1103     TRADE MATHEMATICS III ..... 3 (3-0-0)**

A course which includes practical applications of trigonometry. Major topics studied are determination of area, volume, and perimeter for regular figures, application of formulas to calculate the radius of an inscribed and circumscribed circle, conversion between different units of area and volume, use of the calculator, solving triangles by trigonometric relationships, and graphing of trigonometric functions. Prerequisite MAT 1102 or permission of instructor.

**MAT 1104     BASIC MATHEMATICS ..... 3 (3-0-0)**

A study of basic concepts of mathematics including addition, subtraction, multiplication, and division of numbers. Fractions, decimals, and percentages also will be studied.



**MACHINIST**

- MEC 1101 MACHINE SHOP THEORY** ..... 4 (2-0-6)  
 An introduction to the machinist trade and the potential it holds for the craftsman. Deals primarily with the identification, care and use of basic hand tools and precision measuring tools.
- MEC 1102 LAYOUT PROCEDURES AND PROCESSES** ..... 4 (2-0-6)  
 Deals with elementary layout procedure and processes of the power cut-off saw, band saw, drill presses, milling machine, lathe, and off hand grinding. These procedures will be dealt with in both theory and practice. Prerequisite: MEC 1101 or permission of instructor. May be taken concurrently with MEC 1101.
- MEC 1103 MACHINE SETUP AND OPERATION** ..... 4 (2-0-6)  
 Advanced operations and procedures, surface grinding, milling machines, and lathes will be taught in this course. The students will also be doing projects showing proper setup and machine operations. Prerequisite: MEC 1101 or permission of instructor.
- MEC 1104 CYLINDRICAL CUTTING AND GRINDING**..... 4 (2-0-6)  
 Students will be introduced to the operations involved in cylindrical, cutter, and internal cylindrical grinding. Projects will be selected encompassing proper setups and machine operations. Prerequisite: MEC 1101 or permission of instructor.
- MEC 1105 ENGINE LATHE TURNING, BORING AND  
 THREADING**.....4 (2-0-6)  
 Advanced work on engine lathe, turning, boring, and threading will be dealt with in this course. The student will be introduced to basic indexing and terminology with additional processing on calculating, cutting and measuring of spur, helical, and worm gears and wheels. Prerequisite: MEC 1101 or permission of instructor.
- MEC 1106 TURRET LATHE AND CUTTER OPERATIONS**..... 4 (2-0-6)  
 The trainee will use precision tools and measuring instruments such as the vernier height gauge, protractors, comparators, etc. Basic exercises will be given on the turret lathe and on the tool and cutter grinder. Prerequisite: MEC 1101 or permission of instructor.
- MEC 1107 FINAL ASSEMBLY AND INSPECTION** ..... 4 (2-0-6)  
 Development of class projects using previously learned procedures including blueprint reading, machine operations, final assembly and inspection. Additional practice on various shop equipment. Prerequisite: MEC 1101 or permission of instructor.
- MEC 1108 MACHINE SHOP PRACTICE**..... 4 (2-0-6)  
 Special procedures and operations on shop equipment, observing safety procedures faithfully and establishing of good work habits and attitudes acceptable to industry. Prerequisites: MEC 1101 or permission of instructor.
- MEC 1110 MACHINE PROCESSES I** ..... 3 (2-0-3)  
 An introduction to basic machine operations in relation to manufacturing processes and drafting. Deals primarily with the identification, care and use of basic hand tools and precision—measuring instruments. Elementary layout procedures and processes of lathe, drill press, grinding (off-hand) and milling machines will be introduced both in theory and practice. Safety in the shop is stressed.



- MEC 1111 MACHINE PROCESSES II..... 3 (2-0-3)**  
 Advanced operations in layout tools and procedures, lathe, power saw, drill press, surface grinder, milling machine shaper. The student will complete selected projects encompassing all the operations, tools, and procedures thus far used and those to be stressed throughout the course. Prerequisite: MEC 1110 or permission of instructor.
- MEC 1115 PHYSICAL METALLURGY ..... 3 (2-0-3)**  
 Investigates the physical properties and characteristics of various ferrous metals and non-ferrous metals and their alloys and methods used to change those properties and characteristics to better serve industrial purposes. Instruction will include methods of changing physical characteristics and properties, methods of production, methods of shaping and forming, heat and surface treatments, and classification of ferrous and nonferrous metals. Prerequisite: PHY 1101 or permission of instructor.
- MEC 1120 DUCT CONSTRUCTION AND MAINTENANCE..... 2 (1-0-3)**  
 Study of various duct materials including sheet steel, aluminum, and fiber glass. Safety, sheet metal hand tools, cutting and shaping machines, fasteners and fabrication practices, layout methods, and development of duct systems. The student will service various duct systems and perform on-the-site repairs including ducts made of fiber glass. A study is made of duct fittings, dampers and regulators, diffusers, heater and air washers, fans, insulation and ventilating hoods. Prerequisite: DFT 1110, AHR 1123.
- MEC 1121 NUMERICAL CONTROL THEORY..... 2 (1-2-0)**  
 An introduction to numerical control. Demonstrations by the instructor of the various pieces of numerical control machinery and peripheral equipment in the machine shop, pointing out various controls and operating procedures including safety instructions. Students will program, set up, and operate the various shop numerical control equipment while working on projects. Prerequisite: MEC 1101, MAT 1103.
- MEC 1122 NUMERICAL CONTROL PRACTICE ..... 2 (1-2-0)**  
 An advanced course in numerical controls. Students will program, set up, and operate the various pieces of numerical controls equipment in the machine shop while working on projects. Prerequisite: MEC 1121.
- MEC 1126 HEAT TREATMENT ..... 4 (2-0-6)**  
 Working knowledge of the methods of treating ferrous and non-ferrous metals. The effects of hardening, tempering, and annealing upon the structure and physical properties of metals. Trainees will be given the opportunity to acquaint themselves with the equipment and processes of heat training.
- MEC 1133 MECHANICAL MAINTENANCE ..... 4 (2-0-6)**  
 To acquaint the student with the basic fundamentals of installation, maintenance and repair of machines. Miscellaneous electrical, mechanical, hydraulic, pneumatic, and lubrication devices are installed and maintained. Methods of rigging and machine installation, including location, leveling and fastening are covered. The use of precision measuring tools and checking for accuracy, squareness, and correct center line distances are stressed for pre-start inspection. Prerequisite: MEC 1101, DFT 1104, DFT 1113.

MEC 1140     HYDRAULICS—FUNDAMENTALS ..... 3 (3-0-0)  
The choir offers extensive training in choral technique, part singing, and interpretation. At various times during the year concerts and other programs are presented in the Statesville area: at Mitchell, in churches, and in high schools, according to ability and progress of the group, as determined by the director. Each prospective member must be auditioned and approved by the director.

MUSIC

MUS 160     CHOIR I ..... 1 (0-5-0)  
The choir extensive traning in choral technique, part singing, and interpretation. At various times during the year concerts and other programs are presented in the Statesville area: at Mitchell, in churches, and in high schools, according to ability and progress of the group, as determined by the director. Each prospective member must be auditioned and approved by the director.

MUS 161     CHOIR II .....1 (0-5-0)  
A continuation of MUS 160.

MUS 162     CHOIR III .....1 (0-5-0)

MUS 260     CHOIR IV.....1 (0-4-0)  
Same as MUS 160.

MUS 261     CHOIR V .....1 (0-4-0)  
A continuation of MUS 260.

MUS 262     CHOIR VI.....1 (0-4-0)  
A continuation of MUS 261.

MUS 286     MUSIC APPRECIATION II.....3 (3-0-0)  
A continuation of MUS 285 with the addition of a brief historical survey of the Late Baroque, Classical, and Early Romantic eras.

MUS 287     MUSIC APPRECIATION III.....3 (3-0-0)  
A continuation of MUS 286 with the addition of a brief historical survey of the Late Romantic, Post-Romantic, and Twentieth Century eras.

NURSING

NUR 101     FUNDAMENTALS OF NURSING ..... 8 (5-2-6)  
This course acquaints the student with basic nursing theory and skills with an overall emphasis in meeting adult patient basic needs. The student is introduced to each of the major concepts in the philosophy and conceptual framework of the program. The nursing process and man's basic needs according to Maslow are the primary concepts. Communication skills, the health-illness continuum, man's basic needs, teaching-learning, legal ethical accountability, psycho-social needs, and pharmacology are introduced as threads throughout the curriculum. The roles of the Associate Degree nurse in meeting patient needs are also introduced. Provisions are made for the application of nursing theory and skills in an on-campus laboratory and in the hospital setting. The student is expected to develop a beginning confidence in the performance of skills and patient care utilizing appropriate techniques.  
Prerequisites: None

NUR 111     MEDICAL/SURGICAL NURSING I ..... 12 (7-2-12)  
This course emphasizes the use of communication skills and the nursing process in helping patients meet their basic needs and cope with the



stresses of hospitalization, surgery, dermatological, immunological, musculoskeletal problems. Clinical experience is integrated with theory to give students the opportunity to achieve increased skills in the performance of selected nursing procedures. The use of the nursing process is stressed in the clinical area. Clinical activities are designed to reinforce classroom learning. Prerequisites: PSY 151, BIO 251, NUR 101.

**NUR 112 MEDICAL/SURGICAL NURSING II ..... 10 (6-0-12)**

This course emphasizes the use of communication skills and the nursing process in helping patients meet their basic needs and cope with the stresses of oncologic nursing and gastrointestinal disorders, respiratory, endocrine and reproductive disorders throughout the life span with a concentration on disorders of the adult. Clinical experience is integrated with theory to give students the opportunity to achieve increased skills in the performance of selected nursing procedures. The use of the nursing process is stressed in the clinical area. Clinical activities are designed to reinforce classroom learning. Prerequisites: NUR 111, BIO 252.

**NUR 113 MEDICAL/SURGICAL NURSING III ..... 10 (6-2-9)**

Nursing 113 focuses on the pathophysiology, prognosis, treatment and application of the nursing process to the critical care aspects of the following systems: cardiovascular, respiratory, urinary, gastrointestinal, sensory, and neurological. The unit also includes pathophysiology, prognosis, treatment and application of the nursing process for the patient with metabolic problems, the burn and the trauma patient. Basic concepts of emergency nursing will be included. Clinical experience is integrated with theory to give students the opportunity to achieve increased skills in the performance of selected nursing procedures. A rotation on the telemetry unit and in ICU, CCU, and Neurological ICU is included in the clinical experience. Students will also have a rotation on the medication cart. Observational experiences in a cardiac cath. lab, renal dialysis unit, and burn unit will be scheduled. (Prerequisites: NUR 112, BIO 255, BIO 253)

**NUR 212 PEDIATRIC NURSING..... 10 (6-0-12)**

Nursing 212 is an indepth study of the care of children from infancy through adolescence, in illness and health. During the course emphasis will be placed on normal growth and development, nurse-patient-parent relationships, short and long-term illnesses from infancy through adolescence, and on the preventative, curative, and rehabilitative aspects of nursing of children. (Prerequisites: NUR 112, BIO 253, BIO 255, PSY 262)

**NUR 213 OBSTETRICAL NURSING ..... 10 (6-0-12)**

NUR 213 is an indepth study of the care of the childbearing family from conception through the neonatal period. During the course emphasis will be on both the normal physiologic process of childbirth as well as deviations from the normal. Included will be preventative measures instituted to promote the physical health of the mother and infant and to promote the emotional well-being of the entire family. The course will be structured around the nursing process and Maslow's Hierarchy of Man's Basic Needs. Prerequisites or Corequisites: BIO 253, NUR 111, and PSY 262.

**NUR 214 PSYCHIATRIC NURSING ..... 7 (4-0-9)**  
The course deals with the role of the nurse in the care of the emotionally disturbed individual who may or may not be confined to a hospital at some point in his illness. The concept of stress as a factor in mental health is recognized and the difficulties that are experienced by various age groups are explored. A variety of treatment modalities and approaches are examined. The theories of personality development as taught by the social sciences are reviewed and utilized. The history of the management of care for individuals with emotional problems is covered as well as current trends in delivery of care and legal aspects of psychiatry. Prerequisites: NUR 113, PSY 264.

**NUR 215 LEADERSHIP AND TRENDS IN NURSING..... 6 (3-0-9)**  
The course emphasizes the leadership role of the registered nurse. Current trends, transitional concerns and the need for continuing education are emphasized. Ethics, accountability, and legal aspects of practice are discussed. Transition to the role of the graduate is stressed. Prerequisites: NUR 113.

**NUTRITION**

**NUT 151 NUTRITION ..... 3 (3-0-0)**  
This course presents a practical study of nutrients, how they are used by the body, and their sources taking into consideration developmental and ethnic variations. Common hospital diets used in diet therapy are introduced. Basic principles and nutritional interventions related to dietary treatment of common health problems are identified and described.

**ORIENTATION**

**ORI 150 COLLEGE ORIENTATION ..... 1 (0-2-0)**  
College Orientation will emphasize study skills: taking effective notes, reading and marking textbooks, and studying for and taking examinations. Supportive skills (concentration and retention), college forms and procedures, and time management will be covered also.

**PHILOSOPHY**

**PHI 151 INTRODUCTION TO ETHICAL DECISION MAKING..**  
**3 (3-0-0)**  
This course will have two major parts to it. Approximately one-third of the course will be devoted to a quick survey of various philosophical approaches to ethical decision making. The remaining two-thirds of the quarter will be devoted to a study of contemporary philosophical issues. The purpose of the course is to enable the student to see and understand the dimensions of ethical discourse and thereby make rational ethical decisions.

**PHYSICAL EDUCATION**

Each physical activity course may be repeated as often as the student desires, but the same physical activity course will be counted only twice for graduation.



The physical education program of activity course has been designed to give the student knowledge of a program to carry with him when he leaves school and to aid in his physical conditioning while he is in school. For these reasons, credit by examination may not be given for activity courses.

The College does not provide transportation to any off-campus Physical Education activity.

- PED 150     ARCHERY ..... 1 (0-2-0)  
A course designed to teach the student the fundamental skills of the target bow and arrow.
- PED 151     BADMINTON ..... 1 (0-2-0)  
A course designed to teach the student the rules, regulations and fundamental skills of badminton.
- PED 152     BALLET AND MODERN DANCE ..... 1 (0-2-0)  
An introduction to the fundamentals and techniques of ballet and modern dance.
- PED 153     BASKETBALL ..... 1 (0-2-0)  
A course designed to teach the students basic basketball technique with emphasis placed on rules, regulations and fundamental skills.
- PED 154     BOWLING ..... 1 (0-2-0)  
A course designed to teach the students the fundamental skills of bowling.
- PED 155     CONDITIONING ..... 1 (0-2-0)  
A course designed to teach the student basic conditioning techniques with an overall objective of physical fitness.
- PED 156     FENCING ..... 1 (0-2-0)  
A course designed to teach the student the rules, regulations, and fundamental skills of fencing.
- PED 157     GOLF ..... 1(0-2-0)  
A course designed to teach the student the rules, regulations, etiquette and fundamental skills of beginning golf.
- PED 158     SOCCER ..... 1 (0-2-0)  
A course designed to teach the fundamental skills of team soccer with an emphasis placed on team play, skills, rules, and regulations.
- PED 159     SOFTBALL ..... 1 (0-2-0)  
A course designed to teach the basic fundamental skills of softball. Emphasis is placed on conditioning, rules, and skills.
- PED 160     TENNIS ..... 1 (0-2-0)  
A course designed to teach basic fundamental tennis, with emphasis placed on skills, rules and regulations.
- PED 161     VOLLEYBALL ..... 1 (0-2-0)  
A course designed to teach the basic skills of volleyball with emphasis placed on team play, rules and regulations.
- PED 162     WEIGHT TRAINING ..... 1 (0-2-0)  
A course designed to teach fundamental skills related to weight training with an emphasis placed on body conditioning and control.
- PED164     VARSITY BASKETBALL ..... 1(0-5-0)
- PED165     VARSITY GOLF ..... 1 (0-5-0)
- PED 166     VARSITY TENNIS ..... 1 (0-5-0)

PED 164, 165, and 166 are courses designed for skilled students to participate against each other to improve skills and understandings of advanced techniques, rules and regulations. Students in these classes may be permitted to participate in inter-collegiate student activities.

PED 167 HORSEBACK RIDING ..... 1 (0-2-0)

A course designed to teach the fundamental skills in relation to riding horses. Included in the course will be riding (English and Western), cleaning, feeding, and stabling the horse.

PED 168 TOUCH FOOTBALL ..... 1 (0-2-0)

A course designed to teach the basic fundamental skills of touch football. Emphasis is placed upon rules, safety, skill and conditioning.

PED 169 GYMNASTICS ..... 1 (0-2-0)

A course designed to teach basic tumbling, floor exercise, conditioning, safety, and trampoline maneuvers.

PED 170 SKIING ..... 1 (0-3-0)

A course designed to give information concerning safety in skiing, equipment, clothing, and techniques of skiing used on the slopes.

PED 171 INTERMEDIATE GOLF ..... 1 (0-2-0)

A course designed to teach intermediate golf skills to the student. Emphasis is based on the non-beginner skills.

PED 172 BEGINNING KARATE ..... 1 (0-2-0)

A course designed to teach basic self-defense. Included are blocks, counter punches, and proper kicking techniques. Also stressed are mental and physical conditioning related to the martial art of Tae Kwan Do Karate.

PED 173 INTERMEDIATE KARATE ..... 1 (0-2-0)

A course designed for the Karate enthusiast who desires a more complete knowledge of self-defense, punching and kicking techniques. The use of Karate forms (Cata) to help develop mental and physical attributes needed for the Karate enthusiast.

PED 174 INTERMEDIATE GYMNASTICS ..... 1 (0-2-0)

A course designed to allow students who have completed the basic gymnastic course to further their degree of proficiency in gymnastics. Intermediate Gymnastics exercises include more partner stunts, trampoline routines, and the teamwork involved in preparing and giving a gymnastic exhibition.

PED 175 INTERMEDIATE TENNIS ..... 1 (0-2-0)

A course designed to teach strategy and execution of successful skills used in a tennis match. Emphasis is placed on execution at forehand, backhand, serve, volley, and doubles play and strategy.

PED 177 INTERMEDIATE SKIING ..... 1 (0-2-0)

A course designed for those who desire to attain a higher degree of skiing proficiency. Emphasis is placed on actual skiing techniques with a more appreciable knowledge of equipment, clothing, and conditioning needed for skiing.

PED 178 COMPETITIVE BASKETBALL ..... 1 (0-2-0)

A course designed to teach all aspects of the competitiveness of basketball. Emphasis is placed on team play and the intramural aspects of the game of basketball.



- PED 179 SWIMMING** ..... 1 (0-2-0)  
A course designed to teach and improve basic swimming strokes, water safety, diving, and to promote general fitness.
- PED 180 WRESTLING** ..... 1 (0-2-0)  
A course designed to teach the fundamental skills of beginning wrestling. Emphasis is placed on skills related to freestyle and collegiate wrestling as well as rules and regulations.
- PED 181 TETHERBALL** ..... 1 (0-2-0)  
A course designed to teach the basic fundamentals of exercise, eye-hand contact, and conditioning on relation to tetherball.
- PED 182 INTRODUCTION TO LIFETIME SPORTS** ..... 1 (0-2-0)  
A course designed to teach activities which are available to all individuals in their lifetime. A brief introduction to the following leisure time sports: bowling, golf, tennis, billiards, archery, badminton, and physical fitness.
- PED 183 JOGGING** ..... 1 (0-2-0)  
A course designed to teach proper methods and techniques for devising a jogging program. Emphasis placed on basic fundamentals for fitness and health.
- PED 184 MODERN DANCE** ..... 1 (0-2-0)  
An introduction to the steps and techniques in modern dancing.
- PED 185 BEGINNING AMERICAN AND WESTERN  
SQUARE DANCE** ..... 1 (0-2-0)  
An introduction to the steps, moves and techniques associated with square dancing.
- PED 186 INTERMEDIATE AMERICAN AND WESTERN  
SQUARE DANCE** ..... 1 (0-2-0)  
A continuation of the remaining moves and techniques associated with square dancing.
- PED 187 BEGINNING CLOGGING** ..... 1 (0-2-0)  
The basic techniques of clogging are introduced in this course. Clogging routines, performance and execution are emphasized.
- PED 188 INTERMEDIATE CLOGGING** ..... 1 (0-2-0)  
A continuation of beginning clogging with more emphasis placed upon group routines and group performance.
- PED 189 ADVANCED CLOGGING** ..... 1 (0-2-0)  
A third level of clogging with emphasis on polish, group work, and performance. Prerequisites: PED 188 or permission of instructor.
- PED 190 AEROBIC DANCE** ..... 1 (0-2-0)  
A course designed to teach the student basic concepts and patterns of aerobic dance to ensure fitness and muscle tone through continuous, rhythmic exercise.
- PED 191 WATER SKIING** ..... 1 (2-0-0)  
A course designed to teach the fundamental skills of skiing on water. Included are safety, equipment, equipment care, fundamentals and slalom.

- PED 192 LIFESAVING** ..... 2 (0-0-4)  
 A course designed to teach the proper methods of lifesaving water rescues, basic first aid, CPR, lifeguarding, and individual survival in the water. YMCA and Red Cross certifications upon successful completion. Prerequisites: Advanced swimming skills. Strokes include freestyle, breaststroke, sidestroke, elementary backstroke. Skills include treading water, surface dives and underwater swimming.
- PED 193 RACQUETBALL**..... 1 (0-2-0)  
 A course designed to teach the student the rules, regulations, and fundamental skills of racquetball.
- PED 194 INTERMEDIATE RACQUETBALL** ..... 1 (0-2-0)  
 A course designed to introduce additional, more advanced offensive and defensive shots to the beginning racquetball player. Additional serves are taught, and emphasis placed on shot placement and strategy.
- PED 251 INTRODUCTION TO PHYSICAL EDUCATION** 3 (3-0-0)  
 An introduction to the historical, philosophical, and scientific development of physical education as related to general education.

### PHYSICS

- PHY 101 APPLIED PHYSICS**..... 4 (3-2-0)  
 This course covers heat transfer; energy transformations; heat engines; air conditioning; wave motion and vibration; sound and hearing; light wave motion; mirrors and lenses, reflections, refraction, absorption and dispersion of light, diffraction, and interference; and optical instruments.
- PHY 151 ASTRONOMY I**..... 5 (4-2-0)  
 An introduction to the basic concepts of solar system astronomy. The course will include a study of: history of astronomy, astronomical measurements, astronomical instruments, sun, earth-moon, system, planets, asteroids, comets, meteors, and constellations.
- PHY 152 ASTRONOMY II**..... 5 (4-2-0)  
 An introduction to the basic concepts of stellar and galactic astronomy. The course will include a study of astronomical measurements, astronomical instruments, stars, nebulae, interstellar matter, galaxies, radio astronomy, quasars, black holes, and cosmology.
- PHY 201 RADIOLOGICAL PHYSICS** ..... 4 (3-2-0)  
 This course is an introduction to Physics as it relates to Radiology. Some of the topics that will be studied are: motion, force, energy, electricity, magnetism, electromagnetism, electromagnetic radiation, Atomic physics, and Nuclear Physics.
- PHY 271 GENERAL PHYSICS I** ..... 4 (3-3-0)  
 This is the first quarter of a three quarter sequence of study in the basic principles of physics. This quarter covers the fundamental concepts of the nature of physics and classical mechanics. The basic topics included are measurement, general properties of matter, vector analysis, kinematics, dynamics, statics, and the conservation of momentum and energy.



**PHY 272 GENERAL PHYSICS II ..... 4 (3-3-0)**

This is the second quarter of General Physics. This quarter covers the fundamental concepts of non-linear motion, heat energy, and electricity. The basic topics included are rotation, vibration, wave motion, fluids, thermal expansion, heat transfer, thermodynamics, electrostatics and current electricity. Prerequisite: PHY 271.

**PHY 273 GENERAL PHYSICS III ..... 4 (3-3-0)**

This is the final quarter of General Physics. This quarter covers the fundamental concepts of electromagnetism, light, and modern physics. The basic topics included are magnetism, electromagnetic induction, geometrical and physical optics, atomic and nuclear physics, relativity and quantum mechanics. Prerequisite: PHY 272.

**PHY 1101 APPLIED SCIENCE I ..... 3 (2-2-0)**

This course is an introduction to physical principles and their applications in industry. It includes topics such as measurement; properties of solids, liquids, and gasses; heat; and thermal energy.

**PHY 1102 APPLIED SCIENCE II ..... 3 (2-2-0)**

This course is a continuation of PHY 1101. It includes topics such as static and current electricity, magnetism, electromagnetism, motion, force, energy, and power. Prerequisite: PHY 1101 or permission of instructor.

**POLITICAL SCIENCE****POL 251 AMERICAN NATIONAL GOVERNMENT ..... 5 (5-0-0)**

A survey course covering the organization and role of the Executive, Legislative and Judicial branches of the Federal Government, emphasizing such areas as business, national security, civil rights, the relationship between the American people and their political institutions, the electoral process, interest groups, and the international commitments of the United States.

**POL 261 STATE AND LOCAL GOVERNMENT ..... 5 (5-0-0)**

A study of the organization, functions and powers of state, county, and local governments in the United States, with emphasis on the state of North Carolina.

**POL 271 INTERNATIONAL RELATIONS ..... 3 (3-0-0)**

A study of basic forces underlying the conduct of international relations and the formation of foreign policy, with emphasis on the role of the United States in its relations with major areas of the world today.

**POL 272 COMPARATIVE GOVERNMENT ..... 3 (3-0-0)**

An intensive study of the political structure of various nations, including some nations from Asia, Europe, Africa, Latin America, as well as the United States.

**POL 274 CONSTITUTIONAL LAW ..... 3 (3-0-0)**

A study of the development of American Constitutional Law chiefly through judicial opinion, with emphasis on freedom of speech, rights of persons accused of crime, civil liberties, and separation of church and state.

- POL 275 THE AMERICAN PRESIDENCY** ..... 3 (3-0-0)  
 A survey of the American presidency from George Washington to the incumbent through an examination of the creation of the office, its powers and duties, its successes and failures, and its holders, both famous and infamous. Issues of the current campaign will also form a part of the discussion. Offered only during presidential election year.

### **PSYCHOLOGY**

- PSY 150 CAREER AND LIFE PLANNING** ..... 3 (3-0-0)  
 This course is designed to broaden the students' understanding of himself, his potential, and related factors which contribute to personal satisfaction. Emphasis is placed on clarifying current values, interests, and personality styles so that these factors may be carefully considered in learning to set personal goals, develop career decision-making skills, and acquire techniques for self-management.
- PSY 151 INTRODUCTION TO PSYCHOLOGY** ..... 5 (5-0-0)  
 A study of general psychology as a behavioral science. The course introduces the students to such areas as the history and systems of psychology, sensation, perceptions, learning, emotions, motivation, conditioning, personality, abnormal behavior, development (physical and mental), and social interaction with other people and society. The course will stress the development of a sensitivity toward an awareness of the complexity of human behavior, as well as the development of the basic vocabulary of psychology.
- PSY 201 APPLIED PSYCHOLOGY** ..... 3 (3-0-0)  
 An examination of the problems in human relationships with special attention given to the development of those human relation skills necessary for effective interactions. Topics covered include: adjustment, attitude, communication, habits, listening, frustration, motivation, and the job-finding process.
- PSY 203 ADOLESCENT PSYCHOLOGY** ..... 3 (3-0-0)  
 A course designed to present basic information about the adolescent period of human development. Physiological, developmental, and psychological characteristics are examined, with special focus on the identification and understanding of problems faced by adolescents in western culture. Prerequisite: PSY 151 or permission of instructor.
- PSY 261 EDUCATIONAL PSYCHOLOGY** ..... 5 (5-0-0)  
 The study of the principles involved in learning and teaching. Major concepts and theories in knowledge acquisition will be covered with emphasis on their educational application. Topics included are: age-level behavior characteristics, educational theories and their application to learning, motivation, individual differences, assessment, classroom control, and student/teacher relationships. Prerequisite: PSY 151 or permission of instructor.
- PSY 262 HUMAN GROWTH AND DEVELOPMENT** ..... 5 (5-0-0)  
 An integrated study of the human life span structured to introduce basic concepts and principles of the stages of physiological and psycho-



logical development from conception to senescence. Emphasis is on personality development. Consideration is given to the common chronological processes of development and the sociological, biological, and cultural influences experienced throughout the life span. Prerequisite: PSY 151 or permission of instructor.

**PSY 264 ABNORMAL PSYCHOLOGY ..... 5 (5-0-0)**

A course designed to introduce the learner to theories relating to abnormality. Topics covered include: definitions and history, three perspectives on abnormal behavior, psychosis, suicide and depression, criminal behavior, psychosomatic disorders, brain disorders, mental retardation, and high risk groups. Prerequisite: PSY 151.

**PSY 265 PSYCHOLOGY OF PERSONAL ADJUSTMENT .... 5 (5-0-0)**

The study of the adjustment process, focusing on contemporary challenges individuals must face and deal with as well as effective coping with the adjustment demands of everyday life. Topics covered include: theories of personality and behavior, self-concept and self-esteem, stress and anxiety, human relationships and sexuality, social and environmental factors influencing personal adjustments, and directions for healthy personality functions.

**PSY 1101 HUMAN RELATIONS ..... 3 (3-0-0)**

A study of the principles of psychology that will be of assistance in the understanding of interpersonal relations on the job. Motivation, feelings, and emotions are considered with particular reference to on-the-job problems. Other topics investigated are employee selection, supervision, job satisfaction, and industrial conflicts. Attention is also given to personal and group dynamics so that the student may learn to apply the principles of mental hygiene to adjustment problems as a worker and a member of the general community.

### READING

**RDG 092 DEVELOPMENTAL READING I ..... 3 (1-4-0)**

Designed for the student who needs instruction in word recognition and/or basic comprehension skills before entering Reading 094. Instruction will be individualized. Institutional credit only.

**RDG 094 DEVELOPMENTAL READING II ..... 3 (1-4-0)**

Designed for the student who needs reading instruction, this course will emphasize development of effective study skills and improvement of reading rate, comprehension, and vocabulary. Institutional credit only.

**RDG 1101 VOCATIONAL READING IMPROVEMENT ..... 3 (3-0-0)**

Designed for the vocational student, this course provides an individualized framework that allows the student to concentrate on his own particular weaknesses and to progress at his own rate. Major objectives are to improve word attack skills, vocabulary, comprehension, and reading rate, through the use of multi-media materials.

RELIGION

REL 150 INTRODUCTION TO THE OLD TESTAMENT I.... 3 (3-0-0)

The purpose of this course is to introduce the student to the major themes of the Old Testament which form the central motifs of the Bible. Therefore, the study will cover such themes as God's grace, man's sin, election, and covenant. The course is designed to give the student a survey of Biblical material from Genesis through I Kings 11 in order to offer a comprehensive view of the principle ideas developed in these first books of the Old Testament.

REL 151 INTRODUCTION TO THE OLD TESTAMENT II.... 3 (3-0-0)

The particular focus of this course will be a study of the prophets of the 7th and 8th century, B.C. As time permits, the course will touch on the Wisdom Literature such as Job, Psalms, Proverbs, etc. The course will seek to demonstrate that out of the matrix of history, Israel moves toward ethical monotheism which forms the basis of the New Testament. Themes of covenant, judgment, and grace will be further developed as the student understands the prophetic message emerging out of Israel's traumatic history.

REL 152 INTRODUCTION TO THE NEW TESTAMENT I.... 3 (3-0-0)

The purpose of this study is to introduce the student to the Gospel accounts and the Book of Acts. The course will discuss how the Gospels came into being, the Gospel understanding of the nature and person of Christ, the miracle stories, the question of evil in the New Testament, and the Atonement, as understood by the writers of the Gospels. The study of the Book of Acts will deal with the response of the early Christian church to the Christ event and the transformation of the early church from a small group into a major religious body that would convey a faith that would move the world from B.C. to A.D.

REL 153 INTRODUCTION TO THE NEW TESTAMENT II.... 3

(3-0-0) The course will deal with Paul's understanding of issues such as justification by grace alone through faith, Christian freedom, the nature of Christ, and the parameters of the Christian life. As time permits, the course will examine the perception of God and the marks of the Christian life in the Johanine literature as well as the symbolism of the Book of Revelation, whose principle purpose was to give the infant Christian community hope in the midst of great trials and tribulations.

REL 154 THE RELIGIONS OF MAN ..... 3 (3-0-0)

This course surveys the religions of man, beginning with the early primitive religion of prehistoric man, and ending with contemporary developments in Eastern and Western Religion. Special emphasis is given to Hinduism, Buddhism, Zen, Taoism, Confucianism, Judaism, Christianity, and Islam. The purpose of this course is to enable the student to appreciate the faith of other men, and to become aware of major spiritual forces in the world today.



**SOCIOLOGY****SOC 151 INTRODUCTION TO SOCIOLOGY..... 5 (5-0-0)**

This course begins with the definition and classification of things which pertain to human interaction. Definition of words and concerns with sociological concepts make it a typical introductory course. The scope of the course is wide enough so that most sociological problems are briefly mentioned.

**SOC 261 COURTSHIP, MARRIAGE, AND THE FAMILY ... 5 (5-0-0)**

This course deals with the nature of self which is preparatory for a discussion of courtship. The emotional and down-to-earth problems of marriage are examined in considerable detail. Such problems as marital adjustment, divorces, re-marriages, careers and marriage, and in-laws are considered. The developing family is traced, and the necessity for maturity before marriage is considered. Prerequisite: SOC 151 or permission of the instructor.

**SOC 271 SOCIAL PROBLEMS ..... 3 (3-0-0)**

This course introduces the sociological approach to viewing social problems, and surveys possible causes and solutions to the following problem areas; physical and mental health, variations in human sexuality, chemical dependency, crime and criminals, violence, affluence and poverty, and prejudice and discrimination. Prerequisite: SOC 151 is recommended.

**SOC 272 SOCIAL PROBLEMS ..... 3 (3-0-0)**

This course reviews the sociological approach to social problems, and surveys possible causes and solutions to problems related to the following topics: sex roles, aging, family stress, big business, employment, urban living, population growth, and the environment. Prerequisite: SOC 151 is recommended.

**SPANISH****SPA 151 ELEMENTARY SPANISH I ..... 5 (5-0-0)**

A beginning course for students who have never studied Spanish. Much oral work, drill in grammatical principles, written composition, conversation, dictation, and pronunciation are stressed. SPA 151 and 152 are equivalent to two years of high school Spanish. Senior colleges which required two years of foreign language for admission normally accept these two courses for entrance credit or for six semester hours elective credit.

**SPA 152 ELEMENTARY SPANISH II ..... 5 (5-0-0)**

A continuation of SPA 151. Prerequisite: One year of high school Spanish or SPA 151.

**SPA 251 INTERMEDIATE SPANISH I ..... 5 (5-0-0)**

A review of grammatical and linguistic principles covered through the 152-level course and a study of more advanced grammar and composition and of cultural and literary reading selections.

- SPA 252 INTERMEDIATE SPANISH II ..... 5 (5-0-0)**  
A continuation of Spanish 251, with an emphasis placed on analyzing and translating literary genres of several important writers of the Spanish-speaking world.

**SPEECH**

- SPH 251 PUBLIC SPEAKING ..... 3 (3-0-0)**  
A basic course in public speaking designed to give the student the poise and confidence necessary for thinking and speaking freely before an audience. Set goals in preparation and delivery of different types of speeches will be met largely by means of practice with guidance.

**WELDING**

- WLD 1101 BASIC OXYACETYLENE WELDING..... 2 (1-0-3)**  
Welding demonstrations by the instructor and practice by students in the welding shop. Safe and correct methods of assembling, adjusting, and operating the welding equipment. Practice will be given in surface welding, bronze welding, fillet welding, and flame-cutting methods applicable to mechanical repair work.
- WLD 1102 BASIC ARC WELDING ..... 2 (1-0-3)**  
This course consists of a study of the fundamentals of the shielded metal arc process. Topics include arc welding principles, machine set-up and adjustment, electrode selection, and process applications. Practices are directed toward the student acquiring skills in such welding techniques as running beads, fillet, and groove welds. Safety procedures in the use of equipment and tools will be stressed throughout the course.
- WLD 1103 BASIC GAS METAL ARC WELDING ..... 2 (1-0-3)**  
Upon completion of this course, students should be able to: understand the principles of Gas Metal ARC Welding; correlate proper voltage and amperage selections; obtain a certain degree of proficiency with the welding equipment; weld four basic joints in the flat position; execute safety precautions connected with Gas Metal ARC Welding.
- WLD 1104 BASIC GAS TUNGSTEN ARC WELDING..... 2 (1-0-3)**  
Upon completion of this course, students should be able to: understand the principles of Gas Tungsten ARC Welding; make proper amperage selections for job requirements; obtain a certain degree of proficiency with the welding equipment; weld four basic joints in the flat position; continually exercise safety precautions associated with Gas Tungsten ARC Welding.
- WLD 1105 AIR CONDITIONING-WELDING ..... 2 (1-0-3)**  
This course includes welding demonstrations by the instructor and practice by the students. The safe and proper methods in the setup and operations of welding equipment are demonstrated. Practice is given in brazing, braze welding, and hard and soft soldering of ferrous and nonferrous metals. Flame cutting methods are practiced as applicable to mechanical repair work that the air conditioning technician will encounter in the field of work.



- WLD 1110 OXYACETYLENE WELDING..... 4 (2-0-6)**  
 Introduction to the history of oxyacetylene welding; the principles of welding, nomenclature of equipment, and assembly of the unit. Welding procedures, and practice will consist of carrying a puddle; making surface, seam, groove, and fillet welds in the flat horizontal, vertical, and overhead positions. Brazing and bronze welding are also covered. Safety is stressed throughout the course.
- WLD 1111 OXYACETYLENE CUTTING..... 2 (1-0-3)**  
 This course will include a study of operation principles, component function and care, and proper set-up and adjustment of the oxyacetylene flame cutting equipment. Practices are directed toward the student acquiring skills in such procedures as straight line and shape cutting, beveling, hole piercing, and pipe cutting. Throughout the course safety will be emphasized.
- WLD 1112 ARC WELDING FUNDAMENTALS ..... 4 (2-0-6)**  
 Upon completion of this course, students should be able to understand the basic electrical principles of arc welding; have a working knowledge of the electrode classification system and make proper electrode selections; operate an AC transformer, rectifier, and DC motor generator arc welding machine; weld different types of joints in the flat position; observe all shop safety precautions related to electric arc welding.
- WLD 1113 ARC WELDING TECHNIQUES ..... 4 (2-0-6)**  
 Upon completion of this course, students should be able to weld various joints in all positions; make intermittent and multi pass welds; visually inspect and test welds to determine degrees of proficiency; observe all shop safety precautions related to electric arc welding. May Prerequisite: WLD 1112 or may be taken concurrently with WLD 1112 (or permission of instructor).
- WLD 1114 GAS METAL ARC WELDING ..... 4 (2-0-6)**  
 A course designed to provide the student with an understanding of the gas metal arc welding process. Topics will include principles of operation, machine set-up and adjustment, selection of consumables, and welding techniques. Practice will include seam, fillet, and groove welds in the four basic welding positions.
- WLD 1116 FUNDAMENTALS OF GAS TUNGSTEN  
 ARC WELDING ..... 4 (2-0-6)**  
 Upon completion of this course, students should be able to understand the electrical, physical, and chemical principles of TIG welding; demonstrate a working knowledge of equipment operation; weld different types of joints in the flat position; observe all shop safety precautions related to TIG welding.
- WLD 1117 TECHNIQUES OF GAS TUNGSTEN  
 ARC WELDING ..... 4 (2-0-6)**  
 Upon completion of this course, students should be able to specify welding heat ranges; select tungsten electrodes and ceramic cups in proportionate sizes; determine size and alloy of filler metals; observe all shop safety precautions related to TIG welding. Prerequisite: WLD 1116 or may be taken concurrently with WLD 1116; or permission of instructor.

WLD 1118 INTRODUCTION OF PIPE WELDING ..... 2 (1-0-3)

A course designed to provide practice in the welding of pressure piping in the horizontal, vertical, and horizontal fixed positions using the shielded metal arc welding process according to section IX of the ASME code. Prerequisite: WLD 1113.

WLD 1122 COMMERCIAL AND INDUSTRIAL PROCEDURES..... 4 (2-0-6)

Upon completion of this course, students should be able to demonstrate skills developed through simulated industrial processes; sketch, requisition material, lay out, fabricate, and weld on assigned project; repair worn and/or broken parts employing the available welding processes; continue to stress safety precautions employed in the welding industry. Prerequisites: WLD 1111, WLD 1113, WLD 1114, WLD 1117, and WLD 1118, or permission of instructor.

WLD 1123 COMMERCIAL AND INDUSTRIAL PRACTICES..... 4 (2-0-6)

Upon completion of this course, students should be able to become more proficient in industrial fabrication processes; make a metallurgical analysis of worn and/or broken parts to be repaired; select the best welding process and procedure to repair worn and/or broken parts; utilize safety precautions related to the welding fabrication industry. Prerequisite: WLD 1122. May be taken concurrently with WLD 1122 or permission of instructor.

WLD 1125 STRUCTURAL CERTIFICATION PRACTICE.... 2 (1-0-3)

Upon completion of this course, students should be able to: become familiar with AWS D1.1 Structural Code and its requirements; comply with established certification standards; weld various structural joints in numerous positions using electric ARC and gas metal ARC welding processes; execute safety precautions while using welding equipment and other shop tools. Prerequisite: WLD 1111, WLD 1113, WLD 1114, or permission of instructor.

WLD 1126 PIPE CERTIFICATION PRACTICE..... 2 (1-0-3)

Upon completion of this course, students should be able to: become familiar with the ASME Code for pipe and pressure vessels; comply with established certification standards; make pipe welds in diverse positions required for particular certifications; demonstrate safety precautions pertaining to welding and fabrication equipment. Prerequisites: WLD 1111, WLD 1113, WLD 1114, WLD 1117, and WLD 1118, or permission of instructor.

WLD 1130 MECHANICAL TESTING AND INSPECTION 2 (1-0-3)

The standard methods for mechanical testing of welds. Introduction to the various types of tests and testing procedures. Types of tests to be covered are: bend, destructive, free-bend, guided-bend, nick-tear, notched-bend, tee-bend, nondestructive, V-notch, Charpy impact. Prerequisite: WLD 1112, 1113, 1114, 1116, 1117, 1118, or permission of instructor.





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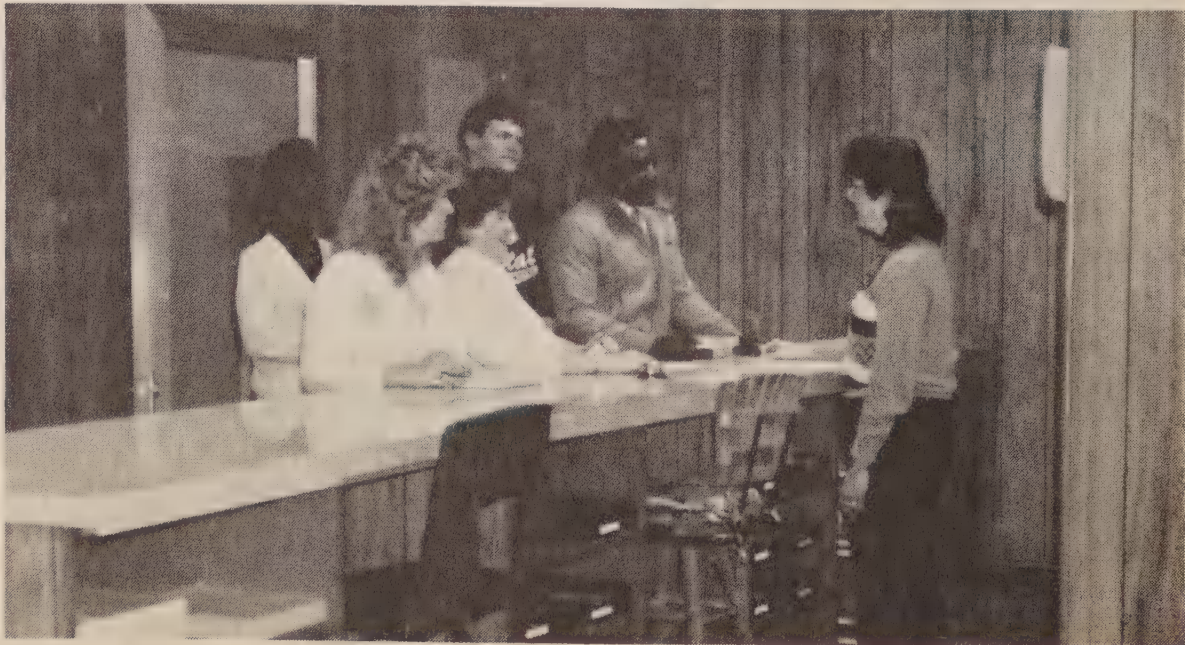
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